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ACIDIC PRECIPITATION IN ONTARIO STUDY - ANNUAL STATISTICS OF CONCENTRATION AND DEPOSITION CUMULATIVE PRECIPITATION MONITORING NETWORK, 1991

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PART I

INTRODUCTION

INTRODUCTION

The statistical summaries presented in this report pertain to the 1991 analytical results obtained from the Acidic Precipitation in Ontario Study (APIOS) cumulative precipitation monitoring network. The relevant data can be obtained on request from the Air Resources Branch of The Ministry of Environment and Energy. All available data are utilized in the calculations except results reported as being unreliable (i.e., results are identified as unreasonable values by using the validation procedures; detailed description of the validation procedures is available from the Ministry upon request) or approximate (i.e., inexact results are reported due to laboratory difficulties, such as may be encountered in calibration, or when the sample cannot be re-analyzed to confirm the reported value). In a very few cases, concentration levels exceeded the upper limit of the range of the chemical analysis. Rather than using the upper limit, a decision was made to exclude these values from the statistics generated in this report. Reported results for metals which have missing leachate analysis are also excluded from statistical analysis. Results labelled as <W are replaced by "zero". W is the level which the analytical technique cannot distinguish from zero. Prior to 1986, if a level was recorded less than the detection limit T, a value corresponding to one half the detection limit was utilized for statistical calculations as reported in the statistical summaries. These values are no longer halved. Note that T is normally about ten times W, and values

above the T criteria are considered to be precise and accurate. The reported cumulative precipitation gauge depth (or an interpolated value from Environment Canada's Climate data) is utilized in the calculation of deposition. If a precipitation gauge value is not available, then the collected sample volume is converted to its equivalent precipitation depth and is used in the deposition calculation.

The statistical summaries presented in Parts III to VI include number of samples, mean (arithmetic/geometric), standard deviation, maximum, minimum, quartiles and precipitation weighted means using precipitation gauge depths where appropriate. These statistics are for an average sampling period. Data which correspond to irregular sampling periods are either combined if they are from consecutive collection periods which span 28 ± 5 days, or deleted, before the statistics are generated.

PART II

STATION LOCATION

1. CAMPBELLFORD
2. COLCHESTER
3. COLDWATER
4. DORION
5. DORSET
6. E.L.A.
7. GARSON
8. GERALDTON
9. GOLDEN LAKE
10. GOWGANDA
11. GRAND BEND
12. HANMER-2
13. KILLARNEY
14. MATTAWA
15. McFARLANE LAKE
16. McKELLAR
17. MERLIN
18. MOONBEAM
19. MOOSONEE
20. PALMERSTON
21. PICKLE LAKE
22. PORT STANLEY
23. PT.PETRE
24. QUETICO CENTRE
25. SHALLOW LAKE
26. SMITHS FALLS
27. TORONTO ISLAND
28. TURKEY LAKES

APIOS CUMULATIVE PRECIPITATION AND DEPOSITION NETWORK SITES

MOE REGION	STATION NAME	LATITUDE	LONGITUDE	NORTHING	EASTING
Southwestern	Grand Bend	43°19′55"	81°44′65"	4797950	439850
	Colchester	41°59′15"	82°55′41"	4650000	340300
	Merlin	42°14′47"	82°13′30"	4676400	398950
	Palmerston	43°48′19"	80°54′12"	4850050	507750
	Port Stanley	42°40′22"	81°09′55"	4724050	486700
	Shallow Lake	44°34′54"	81°05′24"	4936200	492850
Central	Campbellford	44°27′28"	77°47′33"	4907600	277150
	Coldwater	44°37′31"	79°32′08"	4942200	615900
	Dorset	45°13′26"	78°55′52"	5009650	662400
	Toronto Island	43°39′15"	79°23′14"	4834511	630056
Southeastern	Golden Lake	45°36′48"	77°12′03"	5053200	328400
	Pt. Petre	43°50′20"	77°09′10"	4856015	326929
	Smiths Falls	44°56′41"	75°57′48"	4977100	423950
Northeastern	Garson	46°32′45"	80°51′00"	5155900	510900
	Gowganda	47°39′04"	80°46′32"	5277300	516600
	Hanmer-2	46°39′45"	80°56′37"	5167443	504314
	Killarney	45°59′26"	81°29′18"	5092900	462200
	Mattawa	46°16′45"	78°49′19"	5127150	667800
	McFarlane Lake	46°25′57"	81°57′03"	5142323	426948
	McKellar	45°30′57"	79°55′19"	5040600	583950
	Moonbeam	49°19′16"	82°08′46"	5463600	416650
	Moosonee	51°12′35"	80°42′20"	5673000	520550
	Turkey Lakes	47°03′15"	84°24′00"	5214250	696750
Northwestern	Dorion	48°50′33"	88°36′45"	5228750	569500
	E.L.A.	49°39′22"	93°43′28"	5500950	447350
	Geraldton	49°48′05"	86°46′00"	5516300	516750
	Pickle Lake	51°02′41"	90°12′04"	5658307	696198
	Quetico Centre	48°24′44"	91°12′08"	5363461	633035
Out of Prov.	Wolf Ridge	47°23′00"	91°12′25"	5249100	635375

PART III

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY STATION

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: COLCHESTER MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	101.0	2223	37.50	4.30	3.45	0.94	0.74	0.45	0.570
MINIMUM :	33.9	756	26.50	4.24	2.15	0.39	0.05	0.19	0.240
ARITH. MEAN :	57.3	1261	33.33	4.27	2.73	0.74	0.44	0.34	0.373
ARITH. STD. DEV. :	30.9	681	4.87	0.02	0.54	0.25	0.29	0.11	0.142
GEOM. MEAN :	50.2	1106	32.95	4.27	2.68	0.69	0.27	0.32	0.349
1ST QUARTILE :	33.9	756	26.50	4.24	2.15	0.39	0.05	0.19	0.240
2ND QUARTILE :	36.9	804	36.00	4.26	2.60	0.89	0.54	0.37	0.310
3RD QUARTILE :	101.0	2223	37.50	4.30	3.45	0.94	0.74	0.45	0.570
VOL. WGT. MEAN :	.	1629	30.71	.	2.50	0.61	0.29	0.28	0.320
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	0.145	0.040	0.165	0.530	0.009	4.50	0.57	14.00	47.00
MINIMUM :	0.015	0.010	0.060	0.200	0.000	0.72	0.12	4.80	5.40
ARITH. MEAN :	0.090	0.027	0.113	0.334	0.004	3.17	0.33	8.87	24.80
ARITH. STD. DEV. :	0.055	0.012	0.043	0.142	0.004	1.74	0.18	3.83	17.10
GEOM. MEAN :	0.062	0.023	0.104	0.307	0.033	2.41	0.28	8.06	17.74
1ST QUARTILE :	0.015	0.010	0.060	0.200	0.000	0.72	0.12	4.80	5.40
2ND QUARTILE :	0.110	0.030	0.115	0.272	0.004	4.30	0.31	7.80	22.00
3RD QUARTILE :	0.145	0.040	0.165	0.530	0.009	4.50	0.57	14.00	47.00
VOL. WGT. MEAN :	0.061	0.020	0.093	0.281	0.007	2.23	0.25	7.37	17.61
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	2.00	0.26	43.00	0.75	0.22	0.41	86.40	57.54
MINIMUM :	1.10	0.16	5.50	0.75	0.12	0.00	79.90	50.12
ARITH. MEAN :	1.50	0.22	22.17	0.75	0.15	0.18	83.23	54.21
ARITH. STD. DEV. :	0.37	0.04	15.59	0.00	0.05	0.17	2.66	3.08
GEOM. MEAN :	1.45	0.22	16.21	0.75	0.15	0.39	83.19	54.12
1ST QUARTILE :	1.10	0.16	5.50	0.75	0.12	0.00	79.90	50.12
2ND QUARTILE :	1.40	0.24	18.00	0.75	0.12	0.14	83.40	54.95
3RD QUARTILE :	2.00	0.26	43.00	0.75	0.22	0.41	86.40	57.54
VOL. WGT. MEAN :	1.35	0.20	16.02	0.75	0.14	0.28	81.93	52.67
MISSING VALUES :	0	0	0	2	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: MERLIN MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	127.0	3304	76.00	7.10	8.50	1.81	3.39	1.35	2.210
MINIMUM :	18.0	410	23.50	3.81	2.35	0.44	0.20	0.10	0.280
ARITH. MEAN :	58.0	1380	35.96	4.66	4.33	0.83	0.87	0.34	0.738
ARITH. STD. DEV. :	35.4	839	13.27	1.04	1.75	0.40	0.80	0.31	0.463
GEOM. MEAN :	48.3	1141	34.16	4.57	4.03	0.75	0.63	0.26	0.642
1ST QUARTILE :	34.0	680	30.00	4.20	2.90	0.48	0.32	0.18	0.420
2ND QUARTILE :	41.0	1234	31.50	4.35	4.15	0.67	0.68	0.21	0.670
3RD QUARTILE :	95.0	2148	38.00	4.40	4.70	1.05	1.10	0.30	0.790
VOL. WGT. MEAN :	.	1878	33.87	.	4.18	0.72	0.72	0.29	0.801
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.700	0.420	0.820	3.460	0.450	9.10	2.20	17.00	267.00
MINIMUM :	0.035	0.010	0.030	0.194	0.000	0.26	0.00	1.80	4.20
ARITH. MEAN :	0.175	0.082	0.163	0.744	0.046	3.52	0.31	7.40	48.44
ARITH. STD. DEV. :	0.167	0.102	0.205	0.802	0.117	2.44	0.59	4.81	80.59
GEOM. MEAN :	0.125	0.053	0.099	0.562	0.018	2.59	0.51	5.86	15.24
1ST QUARTILE :	0.065	0.030	0.050	0.388	0.004	1.40	0.00	3.90	4.40
2ND QUARTILE :	0.120	0.050	0.100	0.576	0.010	2.70	0.14	5.60	7.40
3RD QUARTILE :	0.190	0.070	0.160	0.662	0.020	4.50	0.25	10.00	44.00
VOL. WGT. MEAN :	0.148	0.100	0.138	0.917	0.079	2.95	0.36	7.25	23.22
MISSING VALUES :	0	0	0	0	0	1	1	4	3

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	4.60	0.96	69.70	3.30	0.50	0.44	183.00	154.88
MINIMUM :	0.41	0.03	5.60	0.12	0.00	0.00	16.90	0.08
ARITH. MEAN :	1.61	0.26	16.47	1.14	0.20	0.11	83.21	55.98
ARITH. STD. DEV. :	1.45	0.24	16.74	1.04	0.15	0.14	40.34	39.51
GEOM. MEAN :	1.14	0.18	12.40	0.74	0.27	0.45	72.28	21.80
1ST QUARTILE :	0.69	0.09	7.70	0.33	0.07	0.00	67.30	39.81
2ND QUARTILE :	0.86	0.17	10.85	0.77	0.19	0.06	79.20	44.67
3RD QUARTILE :	1.20	0.32	17.00	1.40	0.27	0.15	94.20	63.10
VOL. WGT. MEAN :	1.34	0.24	12.96	1.06	0.24	0.18	75.62	47.91
MISSING VALUES :	1	1	1	3	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: PORT STANLEY MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	120.0	3288	81.00	4.58	7.65	1.27	1.16	0.48	1.140
MINIMUM :	29.0	509	16.00	3.80	1.90	0.30	0.21	0.12	0.260
ARITH. MEAN :	52.6	1412	36.96	4.20	4.35	0.72	0.43	0.23	0.632
ARITH. STD. DEV. :	23.2	713	17.71	0.23	1.88	0.26	0.24	0.09	0.244
GEOM. MEAN :	48.7	1257	33.44	4.19	3.96	0.67	0.39	0.21	0.583
1ST QUARTILE :	38.0	921	24.50	4.10	2.70	0.54	0.29	0.15	0.440
2ND QUARTILE :	45.0	1359	32.50	4.17	3.70	0.64	0.39	0.20	0.570
3RD QUARTILE :	64.0	1717	44.50	4.41	5.50	0.94	0.46	0.26	0.820
VOL. WGT. MEAN :	.	1674	35.90	.	4.13	0.71	0.41	0.23	0.605
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.215	0.130	0.275	1.010	0.086	11.00	1.20	9.30	170.00
MINIMUM :	0.040	0.025	0.025	0.134	0.002	0.37	0.00	4.40	11.00
ARITH. MEAN :	0.083	0.053	0.105	0.547	0.019	3.55	0.15	6.01	43.08
ARITH. STD. DEV. :	0.046	0.027	0.068	0.244	0.024	2.51	0.32	1.62	50.57
GEOM. MEAN :	0.074	0.047	0.085	0.485	0.011	2.77	0.54	5.82	26.78
1ST QUARTILE :	0.050	0.035	0.045	0.408	0.005	1.90	0.00	4.80	13.00
2ND QUARTILE :	0.080	0.045	0.105	0.476	0.009	3.45	0.00	5.00	20.50
3RD QUARTILE :	0.105	0.065	0.130	0.728	0.019	3.90	0.14	6.80	34.66
VOL. WGT. MEAN :	0.080	0.051	0.105	0.538	0.015	3.43	0.37	5.78	34.48
MISSING VALUES :	0	0	0	0	0	1	1	4	5

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	6.00	0.31	70.00	2.36	0.09	0.27	198.00	158.49
MINIMUM :	0.42	0.01	6.70	0.11	0.00	0.00	52.60	26.30
ARITH. MEAN :	1.49	0.19	18.95	0.97	0.04	0.11	98.82	72.54
ARITH. STD. DEV. :	1.40	0.08	17.42	0.56	0.04	0.10	39.72	38.24
GEOM. MEAN :	1.17	0.15	14.54	0.78	0.27	0.36	92.04	63.43
1ST QUARTILE :	0.80	0.13	8.90	0.66	0.00	0.00	66.10	38.90
2ND QUARTILE :	1.15	0.18	13.50	0.86	0.03	0.13	83.80	67.61
3RD QUARTILE :	1.30	0.25	16.00	1.20	0.07	0.17	112.00	79.43
VOL. WGT. MEAN :	1.48	0.19	16.17	0.91	0.07	0.18	95.54	70.09
MISSING VALUES :	1	1	1	3	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: SHALLOW LAKE MIC TYPE A SITE NO. 1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	120.0	2956	38.00	6.31	5.40	0.72	0.96	0.90	1.890
MINIMUM :	17.0	34	15.50	4.08	1.00	0.01	0.05	0.01	0.240
ARITH. MEAN :	72.0	1146	23.54	4.88	3.00	0.49	0.38	0.26	0.781
ARITH. STD. DEV. :	27.0	923	7.43	0.74	1.25	0.18	0.26	0.27	0.528
GEOM. MEAN :	65.4	626	22.51	4.83	2.72	0.37	0.29	0.16	0.635
1ST QUARTILE :	56.9	318	17.00	4.31	2.20	0.44	0.20	0.11	0.350
2ND QUARTILE :	74.0	849	21.75	4.54	2.60	0.48	0.28	0.16	0.640
3RD QUARTILE :	95.0	1864	26.00	4.99	4.15	0.65	0.40	0.19	1.130
VOL. WGT. MEAN :	.	1267	21.09	.	2.66	0.48	0.37	0.27	0.782
MISSING VALUES :	0	0	1	1	2	2	2	2	2

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.285	0.325	0.825	1.350	0.156	5.40	0.50	32.00	261.86
MINIMUM :	0.010	0.010	0.015	0.230	0.000	0.55	0.00	1.80	4.30
ARITH. MEAN :	0.099	0.121	0.184	0.617	0.037	2.42	0.12	8.29	75.82
ARITH. STD. DEV. :	0.078	0.092	0.252	0.326	0.055	1.43	0.18	9.28	101.21
GEOM. MEAN :	0.072	0.078	0.085	0.545	0.029	1.91	0.62	5.47	20.42
1ST QUARTILE :	0.050	0.025	0.035	0.388	0.002	0.57	0.00	2.30	4.90
2ND QUARTILE :	0.065	0.120	0.110	0.540	0.005	2.45	0.00	5.10	9.57
3RD QUARTILE :	0.120	0.170	0.130	0.696	0.102	2.80	0.13	6.10	164.69
VOL. WGT. MEAN :	0.096	0.117	0.185	0.602	0.047	2.21	0.35	6.89	48.63
MISSING VALUES :	2	2	2	2	2	5	5	5	7

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	1.50	0.33	26.00	1.80	0.46	0.29	102.00	83.18
MINIMUM :	0.24	0.04	3.80	0.51	0.00	0.00	21.80	0.49
ARITH. MEAN :	0.87	0.14	9.36	1.04	0.09	0.10	57.75	29.57
ARITH. STD. DEV. :	0.35	0.08	6.78	0.49	0.15	0.11	21.70	24.14
GEOM. MEAN :	0.78	0.12	7.72	0.93	0.35	0.45	53.31	13.28
1ST QUARTILE :	0.66	0.08	4.70	0.65	0.00	0.00	42.60	1.10
2ND QUARTILE :	0.78	0.13	6.95	0.83	0.04	0.07	59.80	29.33
3RD QUARTILE :	1.00	0.14	9.60	1.60	0.08	0.19	70.40	40.74
VOL. WGT. MEAN :	0.94	0.12	9.40	1.04	0.14	0.21	51.01	24.50
MISSING VALUES :	5	5	5	7	5	5	2	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: PALMERSTON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	91.0	1863	24.50	4.44	2.25	0.57	0.27	0.18	0.460
MINIMUM :	33.0	0	24.50	4.44	2.25	0.57	0.27	0.18	0.460
ARITH. MEAN :	66.7	623	24.50	4.44	2.25	0.57	0.27	0.18	0.460
ARITH. STD. DEV. :	24.6	877	0.00	0.00	0.00	0.00	0.00	0.00	0.000
GEOM. MEAN :	61.1	22	24.50	4.44	2.25	0.57	0.27	0.18	0.460
1ST QUARTILE :	33.0	0	24.50	4.44	2.25	0.57	0.27	0.18	0.460
2ND QUARTILE :	76.0	6	24.50	4.44	2.25	0.57	0.27	0.18	0.460
3RD QUARTILE :	91.0	1863	24.50	4.44	2.25	0.57	0.27	0.18	0.460
VOL. WGT. MEAN :	.	1369	24.50	.	2.25	0.57	0.27	0.18	0.460
MISSING VALUES :	0	0	2	2	2	2	2	2	2

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	0.040	0.020	0.080	0.488	0.004	2.60	0.27	5.40	12.00
MINIMUM :	0.040	0.020	0.080	0.488	0.004	2.60	0.27	5.40	12.00
ARITH. MEAN :	0.040	0.020	0.080	0.488	0.004	2.60	0.27	5.40	12.00
ARITH. STD. DEV. :	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00
GEOM. MEAN :	0.040	0.020	0.080	0.488	0.004	2.60	0.27	5.40	12.00
1ST QUARTILE :	0.040	0.020	0.080	0.488	0.004	2.60	0.27	5.40	12.00
2ND QUARTILE :	0.040	0.020	0.080	0.488	0.004	2.60	0.27	5.40	12.00
3RD QUARTILE :	0.040	0.020	0.080	0.488	0.004	2.60	0.27	5.40	12.00
VOL. WGT. MEAN :	0.040	0.020	0.080	0.488	0.004	2.60	0.27	5.40	12.00
MISSING VALUES :	2	2	2	2	2	2	2	2	2

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	0.65	0.12	6.50	0.24	0.00	0.14	66.70	36.31
MINIMUM :	0.65	0.12	6.50	0.24	0.00	0.14	66.70	36.31
ARITH. MEAN :	0.65	0.12	6.50	0.24	0.00	0.14	66.70	36.31
ARITH. STD. DEV. :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GEOM. MEAN :	0.65	0.12	6.50	0.24	1.00	0.14	66.70	36.31
1ST QUARTILE :	0.65	0.12	6.50	0.24	0.00	0.14	66.70	36.31
2ND QUARTILE :	0.65	0.12	6.50	0.24	0.00	0.14	66.70	36.31
3RD QUARTILE :	0.65	0.12	6.50	0.24	0.00	0.14	66.70	36.31
VOL. WGT. MEAN :	0.65	0.12	6.50	0.24	0.00	0.14	66.70	36.31
MISSING VALUES :	2	2	2	2	2	2	2	2

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STATION: GRAND BEND MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	12	12	12	12	12	12	12	12	12
MAXIMUM :	145.0	3035	89.00	6.81	8.60	1.30	2.03	0.71	0.960
MINIMUM :	17.9	675	12.00	3.72	1.80	0.30	0.19	0.10	0.320
ARITH. MEAN :	70.6	1706	30.67	4.70	3.61	0.70	0.68	0.24	0.603
ARITH. STD. DEV. :	36.7	806	19.14	0.86	1.71	0.27	0.49	0.16	0.192
GEOM. MEAN :	60.7	1524	26.88	4.63	3.32	0.65	0.55	0.21	0.570
1ST QUARTILE :	40.0	982	22.00	4.27	2.45	0.53	0.30	0.14	0.430
2ND QUARTILE :	59.6	1450	24.75	4.40	3.40	0.62	0.59	0.20	0.640
3RD QUARTILE :	99.0	2223	29.00	4.59	3.55	0.88	0.77	0.27	0.710
VOL. WGT. MEAN :	.	1984	27.45	.	3.27	0.62	0.57	0.21	0.570
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	12	12	12	12	12	12	12	12	12
MAXIMUM :	0.515	0.090	0.440	0.806	0.018	6.30	0.91	15.00	35.00
MINIMUM :	0.035	0.020	0.015	0.262	0.002	0.61	0.00	2.00	4.80
ARITH. MEAN :	0.145	0.046	0.108	0.529	0.008	3.36	0.15	6.87	16.02
ARITH. STD. DEV. :	0.132	0.021	0.113	0.181	0.006	1.65	0.28	3.92	11.39
GEOM. MEAN :	0.107	0.042	0.070	0.493	0.006	2.82	0.70	5.69	12.27
1ST QUARTILE :	0.065	0.025	0.030	0.302	0.002	1.70	0.00	3.10	6.10
2ND QUARTILE :	0.103	0.040	0.068	0.598	0.006	3.30	0.00	7.45	10.65
3RD QUARTILE :	0.130	0.060	0.135	0.670	0.011	4.60	0.11	9.10	22.00
VOL. WGT. MEAN :	0.120	0.042	0.096	0.504	0.007	2.72	0.39	5.63	11.69
MISSING VALUES :	0	0	0	0	0	0	0	2	4

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	12	12	12	12	12	12	12	12
MAXIMUM :	5.40	0.50	51.00	2.00	0.14	0.28	211.00	190.55
MINIMUM :	0.14	0.05	3.50	0.29	0.00	0.00	16.20	0.15
ARITH. MEAN :	1.31	0.24	12.35	0.76	0.06	0.07	72.88	47.50
ARITH. STD. DEV. :	1.43	0.12	13.10	0.56	0.05	0.11	47.45	47.44
GEOM. MEAN :	0.81	0.21	8.40	0.61	0.25	0.59	60.64	19.84
1ST QUARTILE :	0.40	0.16	4.30	0.38	0.00	0.00	45.00	18.62
2ND QUARTILE :	0.67	0.21	6.00	0.53	0.07	0.00	65.50	39.82
3RD QUARTILE :	1.60	0.29	14.00	0.75	0.09	0.15	78.70	46.77
VOL. WGT. MEAN :	1.03	0.21	11.87	0.62	0.09	0.21	67.77	43.10
MISSING VALUES :	0	0	0	2	0	0	0	0

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STATION: DORSET MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	133.0	4120	34.50	4.55	3.75	0.76	0.31	0.28	0.540
MINIMUM :	32.0	900	16.00	4.16	1.00	0.26	0.04	0.02	0.100
ARITH. MEAN :	76.9	2140	23.25	4.37	2.11	0.46	0.16	0.10	0.364
ARITH. STD. DEV. :	31.0	969	5.05	0.11	0.68	0.13	0.07	0.07	0.139
GEOM. MEAN :	70.1	1930	22.76	4.37	2.00	0.44	0.14	0.08	0.326
1ST QUARTILE :	50.0	1333	20.00	4.32	1.75	0.40	0.12	0.06	0.310
2ND QUARTILE :	78.0	1918	22.30	4.38	2.15	0.43	0.14	0.07	0.390
3RD QUARTILE :	98.0	3070	24.00	4.43	2.40	0.47	0.20	0.13	0.460
VOL. WGT. MEAN :	.	2511	23.77	.	2.15	0.46	0.15	0.11	0.366
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.050	0.055	0.080	0.520	0.009	2.40	0.19	5.30	15.00
MINIMUM :	0.010	0.010	0.000	0.116	0.000	0.44	0.00	0.16	4.40
ARITH. MEAN :	0.027	0.025	0.037	0.324	0.003	1.25	0.03	2.34	8.70
ARITH. STD. DEV. :	0.013	0.012	0.025	0.116	0.003	0.59	0.06	1.46	3.91
GEOM. MEAN :	0.024	0.022	0.043	0.300	0.052	1.11	0.63	1.62	7.90
1ST QUARTILE :	0.015	0.015	0.020	0.248	0.000	0.74	0.00	1.40	6.00
2ND QUARTILE :	0.025	0.025	0.025	0.354	0.002	1.10	0.00	2.40	6.90
3RD QUARTILE :	0.035	0.030	0.060	0.378	0.004	1.50	0.00	2.60	13.00
VOL. WGT. MEAN :	0.026	0.025	0.043	0.320	0.004	1.21	0.14	2.29	7.93
MISSING VALUES :	0	0	0	0	0	0	0	1	7

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	1.80	0.21	33.00	2.50	0.07	0.13	91.50	69.18
MINIMUM :	0.38	0.02	2.10	0.15	0.00	0.00	52.10	28.18
ARITH. MEAN :	0.87	0.10	8.89	0.75	0.01	0.04	66.11	43.65
ARITH. STD. DEV. :	0.41	0.06	10.01	0.70	0.02	0.06	11.66	11.35
GEOM. MEAN :	0.79	0.08	5.88	0.53	0.66	0.52	65.14	42.28
1ST QUARTILE :	0.63	0.05	3.40	0.22	0.00	0.00	58.20	37.15
2ND QUARTILE :	0.72	0.09	5.50	0.50	0.00	0.00	63.50	41.69
3RD QUARTILE :	0.98	0.11	6.80	0.69	0.00	0.11	69.90	47.86
VOL. WGT. MEAN :	0.90	0.10	9.14	0.74	0.06	0.12	67.59	45.25
MISSING VALUES :	0	0	0	5	0	0	0	0

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: CAMPBELLFORD MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	75.0	1629	32.50	4.47	2.00	0.96	0.57	0.67	0.290
MINIMUM :	8.0	506	19.00	4.26	1.55	0.44	0.06	0.10	0.150
ARITH. MEAN :	50.3	1178	25.67	4.34	1.77	0.62	0.26	0.30	0.233
ARITH. STD. DEV. :	30.1	485	5.51	0.09	0.18	0.24	0.22	0.26	0.060
GEOM. MEAN :	34.4	1049	25.06	4.34	1.76	0.58	0.17	0.21	0.224
1ST QUARTILE :	8.0	506	19.00	4.26	1.55	0.44	0.06	0.10	0.150
2ND QUARTILE :	68.0	1400	25.50	4.29	1.75	0.47	0.14	0.13	0.260
3RD QUARTILE :	75.0	1629	32.50	4.47	2.00	0.96	0.57	0.67	0.290
VOL. WGT. MEAN :	.	1456	22.94	.	1.67	0.48	0.12	0.15	0.219
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	0.075	0.035	0.405	0.228	0.000	3.50	0.48	5.30	21.00
MINIMUM :	0.010	0.010	0.050	0.142	0.000	0.51	0.00	2.80	15.00
ARITH. MEAN :	0.033	0.022	0.172	0.199	0.000	1.80	0.22	4.05	18.00
ARITH. STD. DEV. :	0.030	0.010	0.165	0.040	0.000	1.25	0.20	1.25	3.00
GEOM. MEAN :	0.022	0.019	0.107	0.194	1.000	1.36	0.44	3.85	17.75
1ST QUARTILE :	0.010	0.010	0.050	0.142	0.000	0.51	0.00	2.80	15.00
2ND QUARTILE :	0.015	0.020	0.060	0.226	0.000	1.40	0.18	4.05	18.00
3RD QUARTILE :	0.075	0.035	0.405	0.228	0.000	3.50	0.48	5.30	21.00
VOL. WGT. MEAN :	0.016	0.016	0.074	0.185	0.000	1.07	0.21	3.06	20.37
MISSING VALUES :	0	0	0	0	0	0	0	1	1

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	1.30	0.35	20.00	.	0.00	0.29	82.80	54.95
MINIMUM :	0.73	0.20	5.80	.	0.00	0.15	62.00	33.88
ARITH. MEAN :	1.02	0.26	10.63	.	0.00	0.20	74.10	46.71
ARITH. STD. DEV. :	0.29	0.06	6.62	.	0.00	0.07	8.83	9.19
GEOM. MEAN :	0.97	0.26	8.91	.	1.00	0.19	73.55	45.71
1ST QUARTILE :	0.73	0.20	5.80	.	0.00	0.15	62.00	33.88
2ND QUARTILE :	1.02	0.24	6.10	.	0.00	0.15	77.50	51.29
3RD QUARTILE :	1.30	0.35	20.00	.	0.00	0.29	82.80	54.95
VOL. WGT. MEAN :	0.79	0.23	6.69	0.00	0.00	0.16	70.80	45.27
MISSING VALUES :	1	0	0	3	0	0	0	0

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: COLDWATER MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	143.0	2872	35.00	6.40	4.10	0.68	0.58	0.21	3.600
MINIMUM :	34.0	386	10.00	4.32	0.90	0.25	0.04	0.04	0.090
ARITH. MEAN :	69.4	1563	21.27	4.69	2.37	0.44	0.24	0.12	0.737
ARITH. STD. DEV. :	28.2	719	6.83	0.56	0.99	0.11	0.14	0.05	0.878
GEOM. MEAN :	64.3	1374	20.14	4.66	2.14	0.43	0.21	0.11	0.474
1ST QUARTILE :	50.0	1186	16.00	4.40	1.80	0.36	0.17	0.07	0.270
2ND QUARTILE :	62.0	1563	22.50	4.53	2.45	0.47	0.20	0.11	0.490
3RD QUARTILE :	88.0	2037	26.00	4.57	2.75	0.50	0.29	0.17	0.740
VOL. WGT. MEAN :	.	1740	20.82	.	2.30	0.44	0.23	0.12	0.671
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.095	0.465	0.115	1.690	0.300	4.50	1.10	5.70	228.35
MINIMUM :	0.005	0.000	0.015	0.100	0.000	0.46	0.00	0.45	6.70
ARITH. MEAN :	0.042	0.087	0.052	0.513	0.041	1.82	0.15	2.79	85.08
ARITH. STD. DEV. :	0.023	0.119	0.029	0.412	0.077	1.07	0.29	1.43	93.11
GEOM. MEAN :	0.035	0.066	0.044	0.381	0.020	1.54	0.49	2.35	33.51
1ST QUARTILE :	0.025	0.020	0.035	0.256	0.003	1.10	0.00	1.70	12.00
2ND QUARTILE :	0.045	0.035	0.045	0.432	0.009	1.60	0.00	2.40	14.00
3RD QUARTILE :	0.050	0.100	0.060	0.660	0.031	1.90	0.14	3.90	164.34
VOL. WGT. MEAN :	0.040	0.081	0.053	0.479	0.036	1.71	0.38	2.71	106.60
MISSING VALUES :	0	0	0	0	0	0	0	0	8

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	2.30	0.35	83.00	1.07	0.24	0.17	78.40	47.86
MINIMUM :	0.33	0.01	2.30	0.21	0.00	0.00	29.90	0.40
ARITH. MEAN :	0.72	0.14	15.43	0.54	0.02	0.06	55.27	29.95
ARITH. STD. DEV. :	0.50	0.08	22.80	0.26	0.06	0.07	14.30	14.44
GEOM. MEAN :	0.62	0.11	7.89	0.48	0.72	0.48	53.22	20.45
1ST QUARTILE :	0.44	0.07	3.80	0.37	0.00	0.00	46.90	26.92
2ND QUARTILE :	0.55	0.13	6.70	0.46	0.00	0.00	55.10	29.51
3RD QUARTILE :	0.80	0.15	8.60	0.63	0.00	0.15	67.90	39.81
VOL. WGT. MEAN :	0.84	0.15	20.97	0.55	0.17	0.15	55.41	30.72
MISSING VALUES :	0	0	0	3	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: TORONTO ISLAND MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	140.1	3659	55.50	6.41	5.90	1.30	0.92	1.75	0.820
MINIMUM :	17.9	206	9.50	3.96	2.00	0.34	0.11	0.13	0.190
ARITH. MEAN :	61.6	1445	34.50	4.37	3.55	0.66	0.46	0.36	0.527
ARITH. STD. DEV. :	29.7	892	12.21	0.61	1.13	0.23	0.24	0.41	0.193
GEOM. MEAN :	54.8	1123	31.84	4.33	3.37	0.62	0.39	0.26	0.486
1ST QUARTILE :	45.5	1093	28.50	4.09	2.50	0.49	0.29	0.18	0.370
2ND QUARTILE :	59.1	1375	32.00	4.21	3.55	0.60	0.46	0.22	0.525
3RD QUARTILE :	80.5	1671	40.50	4.33	4.10	0.75	0.55	0.37	0.680
VOL. WGT. MEAN :	.	1765	33.04	.	3.51	0.62	0.40	0.27	0.554
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.235	0.155	0.935	0.800	0.021	5.20	0.42	12.00	27.00
MINIMUM :	0.020	0.015	0.025	0.142	0.000	1.10	0.00	2.90	5.00
ARITH. MEAN :	0.090	0.053	0.160	0.449	0.007	3.18	0.10	6.09	12.94
ARITH. STD. DEV. :	0.058	0.035	0.233	0.170	0.007	1.35	0.14	2.56	6.67
GEOM. MEAN :	0.074	0.044	0.094	0.413	0.020	2.81	0.55	5.62	11.30
1ST QUARTILE :	0.055	0.035	0.055	0.340	0.002	1.40	0.00	3.70	6.60
2ND QUARTILE :	0.070	0.045	0.075	0.384	0.003	3.75	0.00	5.65	13.50
3RD QUARTILE :	0.105	0.065	0.155	0.552	0.010	4.10	0.23	6.20	15.00
VOL. WGT. MEAN :	0.076	0.047	0.115	0.470	0.007	2.87	0.27	5.46	12.52
MISSING VALUES :	0	0	0	0	0	3	3	5	5

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	4.50	0.39	69.00	2.00	0.17	0.16	134.00	109.65
MINIMUM :	0.96	0.08	5.10	1.10	0.00	0.00	20.90	0.39
ARITH. MEAN :	2.11	0.22	18.71	1.63	0.03	0.06	86.95	61.72
ARITH. STD. DEV. :	1.06	0.09	17.18	0.31	0.05	0.07	28.60	26.94
GEOM. MEAN :	1.88	0.20	14.69	1.60	0.50	0.45	80.26	42.89
1ST QUARTILE :	1.20	0.14	11.00	1.40	0.00	0.00	77.50	46.77
2ND QUARTILE :	1.75	0.21	14.00	1.70	0.00	0.00	84.80	61.66
3RD QUARTILE :	3.00	0.31	17.00	2.00	0.07	0.13	106.00	81.28
VOL. WGT. MEAN :	2.35	0.23	24.70	1.59	0.12	0.14	84.44	60.30
MISSING VALUES :	3	3	3	6	3	3	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: SMITHS FALLS MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	112.0	3525	47.50	4.42	5.26	0.89	0.48	0.32	0.710
MINIMUM :	19.0	0	15.00	4.01	1.05	0.30	0.08	0.06	0.160
ARITH. MEAN :	62.6	1423	29.21	4.25	2.78	0.58	0.21	0.14	0.418
ARITH. STD. DEV. :	27.4	933	9.23	0.12	1.16	0.18	0.11	0.08	0.142
GEOM. MEAN :	56.2	730	27.74	4.25	2.53	0.55	0.18	0.12	0.391
1ST QUARTILE :	45.0	914	20.50	4.14	1.80	0.39	0.13	0.08	0.300
2ND QUARTILE :	53.0	1344	27.75	4.21	2.68	0.60	0.16	0.11	0.450
3RD QUARTILE :	85.2	2122	35.50	4.35	3.20	0.67	0.26	0.16	0.500
VOL. WGT. MEAN :	.	1898	28.33	.	2.84	0.52	0.21	0.12	0.422
MISSING VALUES :	0	0	1	1	1	1	1	1	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.095	0.055	0.165	0.644	0.008	3.10	0.44	8.50	44.00
MINIMUM :	0.015	0.010	0.000	0.128	0.000	0.36	0.00	1.80	7.50
ARITH. MEAN :	0.040	0.025	0.060	0.363	0.003	2.00	0.09	4.48	17.06
ARITH. STD. DEV. :	0.023	0.012	0.054	0.138	0.003	0.87	0.13	1.93	10.99
GEOM. MEAN :	0.035	0.022	0.061	0.331	0.016	1.75	0.52	4.05	14.44
1ST QUARTILE :	0.025	0.015	0.025	0.274	0.000	1.30	0.00	2.60	8.37
2ND QUARTILE :	0.030	0.023	0.030	0.391	0.003	1.70	0.00	4.35	14.00
3RD QUARTILE :	0.040	0.025	0.065	0.430	0.006	2.80	0.18	5.80	17.00
VOL. WGT. MEAN :	0.040	0.023	0.058	0.365	0.004	1.94	0.22	4.62	15.78
MISSING VALUES :	1	1	1	1	1	1	1	1	4

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	3.60	0.59	24.00	2.30	0.19	0.24	119.00	97.72
MINIMUM :	0.72	0.04	7.30	0.38	0.00	0.00	56.00	38.02
ARITH. MEAN :	1.93	0.24	15.79	1.21	0.06	0.06	81.05	58.85
ARITH. STD. DEV. :	0.88	0.14	5.77	0.63	0.07	0.08	18.36	17.23
GEOM. MEAN :	1.72	0.18	14.67	1.05	0.34	0.45	79.05	56.45
1ST QUARTILE :	1.30	0.11	10.00	0.84	0.00	0.00	64.90	40.74
2ND QUARTILE :	1.60	0.26	15.00	1.00	0.03	0.00	81.75	61.68
3RD QUARTILE :	2.60	0.29	22.00	1.99	0.11	0.12	90.30	66.07
VOL. WGT. MEAN :	1.88	0.19	14.88	1.10	0.13	0.15	77.50	55.91
MISSING VALUES :	2	1	1	6	1	1	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: GOLDEN LAKE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	65.0	1654	18.00	4.52	1.30	0.51	0.12	0.14	0.420
MINIMUM :	4.0	593	16.00	4.40	0.70	0.35	0.04	0.07	0.090
ARITH. MEAN :	41.0	1266	17.00	4.45	0.93	0.44	0.08	0.11	0.203
ARITH. STD. DEV. :	26.5	478	0.82	0.05	0.26	0.07	0.03	0.03	0.153
GEOM. MEAN :	24.1	1150	16.98	4.45	0.90	0.43	0.08	0.11	0.156
1ST QUARTILE :	4.0	593	16.00	4.40	0.70	0.35	0.04	0.07	0.090
2ND QUARTILE :	54.0	1550	17.00	4.42	0.80	0.46	0.09	0.12	0.100
3RD QUARTILE :	65.0	1654	18.00	4.52	1.30	0.51	0.12	0.14	0.420
VOL. WGT. MEAN :	.	1574	16.50	.	1.02	0.40	0.07	0.09	0.269
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	0.020	0.020	0.095	0.170	0.003	1.70	0.56	3.20	22.00
MINIMUM :	0.005	0.015	0.030	0.082	0.000	0.64	0.00	2.50	11.00
ARITH. MEAN :	0.013	0.017	0.055	0.112	0.001	1.18	0.23	2.85	15.33
ARITH. STD. DEV. :	0.006	0.002	0.029	0.041	0.001	0.43	0.24	0.35	4.78
GEOM. MEAN :	0.011	0.017	0.048	0.105	0.144	1.09	0.42	2.83	14.65
1ST QUARTILE :	0.005	0.015	0.030	0.082	0.000	0.64	0.00	2.50	11.00
2ND QUARTILE :	0.015	0.015	0.040	0.084	0.000	1.20	0.13	2.85	13.00
3RD QUARTILE :	0.020	0.020	0.095	0.170	0.003	1.70	0.56	3.20	22.00
VOL. WGT. MEAN :	0.011	0.017	0.037	0.129	0.003	0.97	0.15	2.54	16.89
MISSING VALUES :	0	0	0	0	0	0	0	1	0

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	0.78	0.23	9.20	.	0.00	0.22	58.60	39.81
MINIMUM :	0.60	0.14	3.90	.	0.00	0.00	56.90	30.20
ARITH. MEAN :	0.69	0.18	6.27	.	0.00	0.07	57.70	36.01
ARITH. STD. DEV. :	0.09	0.04	2.20	.	0.00	0.10	0.70	4.17
GEOM. MEAN :	0.68	0.17	5.89	.	1.00	0.60	57.70	35.75
1ST QUARTILE :	0.60	0.14	3.90	.	0.00	0.00	56.90	30.20
2ND QUARTILE :	0.69	0.16	5.70	.	0.00	0.00	57.60	38.02
3RD QUARTILE :	0.78	0.23	9.20	.	0.00	0.22	58.60	39.81
VOL. WGT. MEAN :	0.70	0.15	6.76	0.00	0.00	0.22	57.82	33.94
MISSING VALUES :	1	0	0	3	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: PT. PETRE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	98.0	1906	52.50	4.54	6.00	1.20	0.57	0.36	2.040
MINIMUM :	2.4	276	21.00	3.93	1.55	0.33	0.06	0.09	0.150
ARITH. MEAN :	53.2	1342	35.54	4.21	3.57	0.68	0.30	0.19	0.673
ARITH. STD. DEV. :	24.8	472	8.73	0.17	1.37	0.24	0.14	0.08	0.502
GEOM. MEAN :	41.6	1205	34.46	4.21	3.30	0.64	0.25	0.17	0.522
1ST QUARTILE :	41.7	1260	32.00	4.09	2.90	0.53	0.20	0.12	0.360
2ND QUARTILE :	56.9	1485	35.00	4.21	3.35	0.64	0.29	0.15	0.560
3RD QUARTILE :	66.0	1650	37.50	4.36	4.40	0.85	0.36	0.25	0.730
VOL. WGT. MEAN :	.	1541	32.65	.	3.32	0.64	0.27	0.18	0.663
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.105	0.855	0.245	1.580	0.138	5.30	0.25	9.00	121.10
MINIMUM :	0.015	0.000	0.030	0.118	0.000	0.27	0.00	1.30	7.80
ARITH. MEAN :	0.054	0.113	0.082	0.530	0.031	2.38	0.04	5.38	27.57
ARITH. STD. DEV. :	0.027	0.221	0.057	0.422	0.049	1.34	0.08	2.46	32.66
GEOM. MEAN :	0.046	0.063	0.068	0.395	0.040	1.91	0.78	4.61	18.29
1ST QUARTILE :	0.030	0.025	0.040	0.186	0.002	1.30	0.00	3.10	10.00
2ND QUARTILE :	0.055	0.030	0.080	0.396	0.006	2.45	0.00	6.00	14.50
3RD QUARTILE :	0.070	0.050	0.090	0.622	0.017	3.00	0.00	7.70	32.00
VOL. WGT. MEAN :	0.049	0.146	0.070	0.526	0.046	2.14	0.24	4.86	27.03
MISSING VALUES :	0	0	0	0	0	1	1	2	3

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	4.90	0.44	45.00	1.30	2.00	0.18	144.00	117.49
MINIMUM :	0.59	0.11	3.90	0.24	0.00	0.00	61.30	28.84
ARITH. MEAN :	2.01	0.21	21.33	0.68	0.26	0.04	92.99	65.45
ARITH. STD. DEV. :	1.12	0.11	11.43	0.38	0.53	0.07	22.71	24.21
GEOM. MEAN :	1.73	0.19	18.14	0.57	0.34	0.62	90.34	61.01
1ST QUARTILE :	1.10	0.12	14.00	0.25	0.00	0.00	71.40	43.65
2ND QUARTILE :	1.95	0.15	18.00	0.72	0.11	0.00	92.20	61.66
3RD QUARTILE :	2.40	0.27	22.00	0.88	0.18	0.00	100.00	81.28
VOL. WGT. MEAN :	1.86	0.20	19.32	0.62	0.44	0.17	85.52	58.29
MISSING VALUES :	1	1	1	7	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: KILLARNEY MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11	11
MAXIMUM :	117.0	3114	36.00	7.09	4.40	0.73	0.61	1.77	1.980
MINIMUM :	15.0	340	14.00	4.14	2.10	0.20	0.08	0.08	0.260
ARITH. MEAN :	74.8	1633	24.50	4.86	2.94	0.45	0.28	0.38	0.952
ARITH. STD. DEV. :	33.4	918	7.62	0.89	0.66	0.16	0.15	0.54	0.629
GEOM. MEAN :	64.8	1338	23.31	4.79	2.87	0.42	0.24	0.20	0.742
1ST QUARTILE :	53.0	792	17.50	4.27	2.45	0.35	0.21	0.12	0.360
2ND QUARTILE :	66.0	1335	23.75	4.42	2.80	0.39	0.25	0.14	0.630
3RD QUARTILE :	110.0	2440	33.00	5.58	3.30	0.56	0.33	0.15	1.710
VOL. WGT. MEAN :	.	1949	23.84	.	2.75	0.44	0.25	0.34	0.908
MISSING VALUES :	0	0	1	0	1	1	1	1	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11	11
MAXIMUM :	0.135	0.605	1.075	1.910	0.158	4.40	1.10	105.00	159.02
MINIMUM :	0.020	0.030	0.045	0.256	0.003	0.00	0.00	0.26	5.64
ARITH. MEAN :	0.055	0.204	0.254	0.612	0.029	2.23	0.23	19.41	49.78
ARITH. STD. DEV. :	0.034	0.203	0.358	0.470	0.043	1.27	0.34	33.36	56.17
GEOM. MEAN :	0.046	0.120	0.116	0.505	0.013	2.11	0.30	5.56	27.27
1ST QUARTILE :	0.030	0.050	0.050	0.328	0.004	1.30	0.00	2.10	19.00
2ND QUARTILE :	0.045	0.095	0.070	0.465	0.013	2.30	0.12	4.45	19.23
3RD QUARTILE :	0.080	0.395	0.195	0.560	0.030	2.70	0.17	6.80	46.00
VOL. WGT. MEAN :	0.048	0.181	0.241	0.532	0.023	2.37	0.29	20.33	40.64
MISSING VALUES :	1	1	1	1	0	3	3	3	6

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	2.60	192.64	15.00	5.60	1.60	0.94	107.00	72.44
MINIMUM :	0.46	0.03	3.30	0.47	0.00	0.00	26.20	0.08
ARITH. MEAN :	1.06	25.21	7.18	2.05	0.36	0.26	64.25	33.62
ARITH. STD. DEV. :	0.64	63.34	3.44	1.63	0.56	0.28	27.00	23.25
GEOM. MEAN :	0.92	0.35	6.46	1.49	0.44	0.38	57.64	13.75
1ST QUARTILE :	0.54	0.03	3.70	0.50	0.00	0.00	29.20	2.63
2ND QUARTILE :	0.96	0.12	6.70	1.50	0.09	0.19	61.40	38.02
3RD QUARTILE :	1.10	0.15	8.10	2.30	0.12	0.26	93.30	53.70
VOL. WGT. MEAN :	0.91	19.51	6.58	1.77	0.77	0.42	63.43	34.25
MISSING VALUES :	3	3	3	3	3	3	0	0

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STATION: MATTAWA MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11	11
MAXIMUM :	135.0	3909	28.50	5.01	3.90	0.49	0.77	0.48	1.200
MINIMUM :	18.0	0	7.50	4.27	0.80	0.17	0.05	0.04	0.000
ARITH. MEAN :	73.3	1591	18.95	4.56	2.40	0.32	0.21	0.12	0.414
ARITH. STD. DEV. :	26.5	1001	6.33	0.26	0.93	0.08	0.20	0.13	0.299
GEOM. MEAN :	67.2	785	17.72	4.56	2.19	0.31	0.16	0.09	0.429
1ST QUARTILE :	63.0	661	13.50	4.39	1.70	0.28	0.10	0.06	0.250
2ND QUARTILE :	75.0	1440	19.50	4.48	2.30	0.32	0.14	0.07	0.320
3RD QUARTILE :	80.0	2201	25.50	4.88	2.85	0.35	0.24	0.14	0.580
VOL. WGT. MEAN :	.	2026	17.97	.	2.24	0.31	0.25	0.12	0.383
MISSING VALUES :	0	0	1	1	1	1	1	1	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11	11
MAXIMUM :	0.195	0.210	0.518	0.928	0.102	14.00	0.25	7.40	42.00
MINIMUM :	0.015	0.020	0.000	0.078	0.000	0.26	0.00	0.22	5.82
ARITH. MEAN :	0.045	0.077	0.079	0.358	0.017	3.46	0.06	4.07	18.06
ARITH. STD. DEV. :	0.052	0.067	0.148	0.223	0.029	3.95	0.09	2.34	16.93
GEOM. MEAN :	0.032	0.054	0.055	0.296	0.013	2.02	0.60	2.94	11.59
1ST QUARTILE :	0.019	0.025	0.020	0.254	0.003	1.10	0.00	2.20	5.82
2ND QUARTILE :	0.028	0.040	0.030	0.307	0.005	2.05	0.00	3.50	6.37
3RD QUARTILE :	0.040	0.125	0.045	0.452	0.011	3.10	0.11	6.00	42.00
VOL. WGT. MEAN :	0.056	0.071	0.085	0.291	0.012	4.01	0.22	4.18	18.66
MISSING VALUES :	1	1	1	1	0	1	1	2	0

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	2.50	1.58	12.00	2.90	0.18	0.25	85.30	53.70
MINIMUM :	0.34	0.02	2.80	0.19	0.00	0.00	30.00	9.77
ARITH. MEAN :	1.01	0.23	5.10	1.43	0.04	0.13	56.28	31.94
ARITH. STD. DEV. :	0.65	0.45	2.73	0.81	0.06	0.11	16.09	15.33
GEOM. MEAN :	0.82	0.09	4.58	1.14	0.37	0.38	53.87	27.29
1ST QUARTILE :	0.35	0.05	3.30	0.97	0.00	0.00	44.00	13.18
2ND QUARTILE :	0.87	0.09	3.75	1.30	0.00	0.17	55.05	33.50
3RD QUARTILE :	1.30	0.13	6.30	1.70	0.07	0.22	67.80	40.74
VOL. WGT. MEAN :	0.83	0.26	4.48	1.21	0.09	0.20	55.02	30.12
MISSING VALUES :	1	1	1	2	1	1	1	1

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STATION: GOWGANDA MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11	11
MAXIMUM :	111.0	2783	22.50	5.81	2.50	0.37	0.45	1.08	0.910
MINIMUM :	12.0	6	5.50	4.28	0.85	0.14	0.06	0.04	0.190
ARITH. MEAN :	54.6	1118	14.81	4.84	1.69	0.26	0.16	0.24	0.417
ARITH. STD. DEV. :	29.8	872	5.77	0.56	0.62	0.09	0.12	0.33	0.224
GEOM. MEAN :	46.2	580	13.52	4.81	1.57	0.24	0.13	0.13	0.369
1ST QUARTILE :	34.0	420	9.00	4.29	0.95	0.14	0.07	0.06	0.250
2ND QUARTILE :	42.0	1005	14.00	4.69	1.63	0.24	0.12	0.08	0.320
3RD QUARTILE :	86.0	1586	19.00	4.75	2.35	0.37	0.13	0.24	0.480
VOL. WGT. MEAN :	.	1436	13.83	.	1.77	0.28	0.21	0.39	0.393
MISSING VALUES :	0	0	3	3	3	3	3	3	4

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11	11
MAXIMUM :	0.095	0.370	0.855	0.542	0.168	3.10	0.26	8.01	88.29
MINIMUM :	0.010	0.015	0.025	0.086	0.002	0.00	0.00	1.80	5.20
ARITH. MEAN :	0.038	0.097	0.149	0.280	0.033	1.50	0.06	4.50	46.75
ARITH. STD. DEV. :	0.031	0.112	0.270	0.130	0.052	1.17	0.10	2.44	41.55
GEOM. MEAN :	0.027	0.057	0.057	0.247	0.013	1.33	0.56	3.83	21.43
1ST QUARTILE :	0.010	0.025	0.030	0.154	0.003	0.37	0.00	1.80	5.20
2ND QUARTILE :	0.028	0.043	0.030	0.276	0.015	1.30	0.00	4.10	46.75
3RD QUARTILE :	0.035	0.100	0.045	0.300	0.019	2.90	0.12	5.50	88.29
VOL. WGT. MEAN :	0.044	0.144	0.278	0.330	0.031	1.77	0.14	3.20	28.94
MISSING VALUES :	3	3	3	3	3	5	5	7	9

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	2.80	0.37	6.80	1.30	0.07	0.28	74.00	52.48
MINIMUM :	0.34	0.05	1.60	0.35	0.00	0.00	21.60	1.55
ARITH. MEAN :	0.92	0.14	4.25	0.86	0.02	0.07	46.01	24.88
ARITH. STD. DEV. :	0.94	0.12	1.63	0.40	0.03	0.10	17.37	18.33
GEOM. MEAN :	0.63	0.11	3.88	0.76	0.41	0.56	42.73	14.54
1ST QUARTILE :	0.37	0.08	3.40	0.35	0.00	0.00	31.30	1.95
2ND QUARTILE :	0.48	0.08	4.10	0.90	0.00	0.00	40.45	20.42
3RD QUARTILE :	0.61	0.11	5.50	1.20	0.07	0.11	56.80	33.11
VOL. WGT. MEAN :	0.63	0.13	3.79	0.80	0.07	0.18	40.52	17.79
MISSING VALUES :	6	6	5	7	5	5	3	3

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STATION: MOONBEAM MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	10	10	10	10	10	10	10	10	10
MAXIMUM :	145.0	4028	28.50	6.92	3.25	0.41	1.28	2.26	4.500
MINIMUM :	20.0	45	5.00	4.20	0.00	0.11	0.05	0.04	0.140
ARITH. MEAN :	69.0	1546	13.17	5.05	1.66	0.24	0.28	0.31	0.711
ARITH. STD. DEV. :	37.4	1200	7.83	0.72	0.94	0.10	0.36	0.69	1.269
GEOM. MEAN :	58.6	950	11.01	5.00	1.61	0.22	0.17	0.09	0.355
1ST QUARTILE :	32.0	638	6.50	4.60	1.05	0.16	0.10	0.05	0.230
2ND QUARTILE :	63.5	1148	10.00	4.80	1.30	0.21	0.16	0.07	0.265
3RD QUARTILE :	90.0	2660	16.50	5.29	2.25	0.33	0.23	0.08	0.360
VOL. WGT. MEAN :	.	2093	12.37	.	1.72	0.22	0.35	0.47	0.990
MISSING VALUES :	0	0	1	0	1	1	1	1	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	10	10	10	10	10	10	10	10	10
MAXIMUM :	0.245	0.575	1.470	0.872	0.071	4.80	0.78	90.00	75.84
MINIMUM :	0.010	0.025	0.020	0.140	0.000	0.16	0.00	1.10	5.50
ARITH. MEAN :	0.054	0.118	0.196	0.341	0.018	1.85	0.15	15.55	26.72
ARITH. STD. DEV. :	0.069	0.165	0.451	0.218	0.020	1.37	0.24	28.73	25.92
GEOM. MEAN :	0.033	0.070	0.050	0.289	0.021	1.27	0.54	4.63	16.74
1ST QUARTILE :	0.020	0.045	0.025	0.224	0.005	0.86	0.00	1.50	6.24
2ND QUARTILE :	0.030	0.055	0.030	0.244	0.013	1.80	0.00	3.05	18.00
3RD QUARTILE :	0.050	0.090	0.060	0.398	0.027	2.20	0.15	3.50	28.00
VOL. WGT. MEAN :	0.067	0.162	0.302	0.389	0.022	2.01	0.49	22.21	33.37
MISSING VALUES :	1	1	1	1	0	1	1	2	5

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	10	10	10	10	10	10	10	10
MAXIMUM :	3.00	2.80	20.00	29.00	1.50	0.18	79.70	63.10
MINIMUM :	0.07	0.01	0.86	0.15	0.00	0.00	24.20	0.12
ARITH. MEAN :	0.90	0.36	6.81	7.70	0.31	0.07	39.87	18.44
ARITH. STD. DEV. :	0.84	0.87	6.03	10.69	0.58	0.08	16.76	17.37
GEOM. MEAN :	0.58	0.05	4.29	1.72	1.08	0.44	36.87	8.93
1ST QUARTILE :	0.34	0.02	1.80	0.25	0.00	0.00	24.90	5.13
2ND QUARTILE :	0.60	0.02	5.10	1.40	0.00	0.00	37.70	15.95
3RD QUARTILE :	1.10	0.13	8.50	14.00	0.00	0.16	45.80	25.12
VOL. WGT. MEAN :	0.74	0.33	6.08	6.80	1.44	0.17	35.67	13.39
MISSING VALUES :	1	1	1	4	1	1	0	0

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STATION: TURKEY LAKES MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11	11
MAXIMUM :	207.0	4418	35.80	6.02	3.30	1.30	0.45	0.71	1.890
MINIMUM :	39.0	0	8.00	4.25	1.20	0.22	0.11	0.06	0.220
ARITH. MEAN :	102.0	2099	19.53	4.80	2.35	0.49	0.26	0.17	0.788
ARITH. STD. DEV. :	51.1	1177	7.73	0.65	0.67	0.28	0.12	0.19	0.539
GEOM. MEAN :	90.0	1043	17.99	4.76	2.24	0.44	0.23	0.12	0.633
1ST QUARTILE :	65.0	1169	12.50	4.39	2.00	0.36	0.13	0.07	0.370
2ND QUARTILE :	91.0	2096	18.25	4.48	2.25	0.43	0.24	0.08	0.600
3RD QUARTILE :	153.0	2536	26.00	5.12	3.00	0.49	0.36	0.16	1.010
VOL. WGT. MEAN :	.	2828	17.09	.	2.23	0.44	0.29	0.26	0.985
MISSING VALUES :	0	0	1	1	1	1	1	1	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11	11
MAXIMUM :	0.155	0.175	0.545	0.932	0.086	5.30	0.75	57.00	9.00
MINIMUM :	0.020	0.030	0.010	0.324	0.002	0.27	0.00	1.00	6.34
ARITH. MEAN :	0.058	0.063	0.117	0.563	0.021	2.51	0.10	10.97	7.67
ARITH. STD. DEV. :	0.038	0.049	0.166	0.188	0.028	1.40	0.23	16.49	1.33
GEOM. MEAN :	0.049	0.050	0.052	0.533	0.010	1.99	0.83	5.05	7.55
1ST QUARTILE :	0.035	0.030	0.025	0.408	0.004	1.80	0.00	2.80	6.34
2ND QUARTILE :	0.043	0.035	0.040	0.553	0.007	2.20	0.00	3.85	7.67
3RD QUARTILE :	0.055	0.085	0.095	0.738	0.023	3.80	0.00	7.50	9.00
VOL. WGT. MEAN :	0.075	0.086	0.193	0.581	0.026	2.91	0.50	18.29	7.92
MISSING VALUES :	1	1	1	1	1	1	1	1	9

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	2.50	7.89	80.00	4.20	0.62	0.17	98.40	56.23
MINIMUM :	0.23	0.02	1.10	0.28	0.00	0.00	26.00	0.95
ARITH. MEAN :	1.07	0.87	12.03	1.37	0.08	0.03	53.24	29.17
ARITH. STD. DEV. :	0.71	2.34	22.87	1.31	0.19	0.06	21.37	18.61
GEOM. MEAN :	0.81	0.11	4.95	0.87	0.82	0.69	48.88	15.96
1ST QUARTILE :	0.39	0.04	3.00	0.34	0.00	0.00	30.10	7.59
2ND QUARTILE :	0.94	0.11	3.70	0.82	0.00	0.00	53.85	33.50
3RD QUARTILE :	1.50	0.14	5.70	1.90	0.00	0.00	65.30	40.74
VOL. WGT. MEAN :	0.98	0.42	13.02	1.87	0.45	0.16	45.11	21.39
MISSING VALUES :	1	1	1	4	1	1	1	1

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STATION: MCFARLANE LAKE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	10	10	10	10	10	10	10	10	10
MAXIMUM :	128.0	3695	51.00	4.57	4.50	0.91	0.28	0.25	0.600
MINIMUM :	15.0	642	15.00	4.00	1.70	0.14	0.03	0.03	0.180
ARITH. MEAN :	73.7	1933	26.05	4.32	2.77	0.37	0.13	0.11	0.378
ARITH. STD. DEV. :	35.6	975	9.62	0.16	0.74	0.22	0.06	0.07	0.140
GEOM. MEAN :	62.1	1675	24.63	4.32	2.68	0.32	0.11	0.08	0.352
1ST QUARTILE :	41.0	1110	20.50	4.17	2.35	0.27	0.10	0.05	0.260
2ND QUARTILE :	83.0	1739	22.25	4.36	2.73	0.33	0.13	0.08	0.365
3RD QUARTILE :	100.0	2842	30.00	4.45	3.05	0.34	0.14	0.12	0.500
VOL. WGT. MEAN :	.	2357	24.77	.	2.61	0.37	0.11	0.11	0.366
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	10	10	10	10	10	10	10	10	10
MAXIMUM :	0.060	0.050	0.120	0.534	0.015	3.00	1.10	6.50	68.00
MINIMUM :	0.005	0.010	0.000	0.148	0.000	0.25	0.00	2.00	6.80
ARITH. MEAN :	0.026	0.029	0.047	0.307	0.003	1.48	0.41	3.83	31.77
ARITH. STD. DEV. :	0.014	0.011	0.043	0.111	0.004	0.74	0.40	1.71	20.84
GEOM. MEAN :	0.022	0.026	0.084	0.287	0.019	1.24	0.46	3.46	24.48
1ST QUARTILE :	0.020	0.020	0.015	0.230	0.000	1.00	0.16	2.40	17.04
2ND QUARTILE :	0.025	0.025	0.030	0.310	0.002	1.55	0.21	2.80	31.00
3RD QUARTILE :	0.030	0.035	0.090	0.336	0.004	1.80	0.93	5.60	36.00
VOL. WGT. MEAN :	0.022	0.025	0.060	0.305	0.004	1.27	0.48	3.96	32.04
MISSING VALUES :	0	0	0	0	0	0	0	3	5

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	10	10	10	10	10	10	10	10
MAXIMUM :	20.00	6.15	29.00	140.00	1.50	4.50	136.00	100.00
MINIMUM :	0.08	0.01	1.30	0.51	0.00	0.00	48.80	26.92
ARITH. MEAN :	5.87	0.72	9.28	35.01	0.43	1.19	76.09	51.45
ARITH. STD. DEV. :	7.03	1.81	9.25	44.39	0.52	1.37	24.19	20.77
GEOM. MEAN :	2.47	0.11	6.23	12.47	0.38	0.97	72.84	47.86
1ST QUARTILE :	1.40	0.05	4.10	5.10	0.07	0.27	58.20	35.48
2ND QUARTILE :	1.85	0.07	5.55	13.00	0.17	0.57	69.10	43.70
3RD QUARTILE :	9.60	0.24	6.60	70.00	0.80	1.80	90.30	67.61
VOL. WGT. MEAN :	4.58	0.23	9.54	29.38	0.44	1.24	73.32	48.40
MISSING VALUES :	0	0	0	0	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: HANMER-2 MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	10	10	10	10	10	10	10	10	10
MAXIMUM :	125.0	3178	50.50	5.49	5.60	0.85	0.69	0.62	1.320
MINIMUM :	31.0	306	15.50	3.97	2.05	0.29	0.07	0.05	0.220
ARITH. MEAN :	70.7	1620	27.15	4.49	3.13	0.45	0.24	0.17	0.562
ARITH. STD. DEV. :	31.3	872	11.13	0.45	1.04	0.16	0.18	0.16	0.353
GEOM. MEAN :	63.9	1353	25.22	4.47	2.97	0.42	0.18	0.13	0.472
1ST QUARTILE :	42.0	1007	18.50	4.15	2.20	0.34	0.11	0.09	0.300
2ND QUARTILE :	63.0	1313	23.50	4.37	3.13	0.38	0.15	0.12	0.430
3RD QUARTILE :	102.0	2256	32.00	4.55	3.55	0.50	0.30	0.18	0.670
VOL. WGT. MEAN :	.	1864	24.61	.	2.99	0.41	0.26	0.19	0.575
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	10	10	10	10	10	10	10	10	10
MAXIMUM :	0.080	0.310	0.380	0.876	0.116	10.00	0.66	36.00	44.00
MINIMUM :	0.010	0.015	0.025	0.216	0.000	0.19	0.00	4.70	5.30
ARITH. MEAN :	0.038	0.101	0.077	0.497	0.020	3.53	0.25	12.50	19.11
ARITH. STD. DEV. :	0.024	0.104	0.103	0.222	0.034	3.45	0.19	11.86	15.83
GEOM. MEAN :	0.030	0.057	0.050	0.446	0.024	2.08	0.27	9.03	13.26
1ST QUARTILE :	0.020	0.020	0.025	0.310	0.002	1.30	0.14	5.40	5.77
2ND QUARTILE :	0.025	0.043	0.038	0.514	0.004	1.70	0.18	7.00	10.80
3RD QUARTILE :	0.060	0.205	0.065	0.644	0.027	3.70	0.27	9.40	38.00
VOL. WGT. MEAN :	0.039	0.108	0.096	0.480	0.022	3.46	0.31	14.89	20.72
MISSING VALUES :	0	0	0	0	0	1	1	5	4

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	10	10	10	10	10	10	10	10
MAXIMUM :	7.90	0.20	35.00	35.00	2.00	6.30	136.00	107.15
MINIMUM :	0.74	0.02	4.40	1.40	0.00	0.00	35.40	3.24
ARITH. MEAN :	3.15	0.11	12.97	13.96	0.39	1.24	73.51	47.04
ARITH. STD. DEV. :	2.10	0.06	10.10	10.75	0.60	1.86	33.73	31.12
GEOM. MEAN :	2.47	0.08	10.15	9.11	0.49	0.72	66.54	32.43
1ST QUARTILE :	1.30	0.05	6.30	3.60	0.00	0.28	49.70	28.18
2ND QUARTILE :	2.90	0.11	7.80	13.50	0.17	0.48	64.65	42.76
3RD QUARTILE :	3.90	0.15	13.00	18.00	0.38	1.10	87.80	70.79
VOL. WGT. MEAN :	2.80	0.09	13.54	12.49	0.66	1.11	65.71	39.50
MISSING VALUES :	1	1	1	2	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: GARSON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	8	8	8	8	8	8	8	8	8
MAXIMUM :	128.0	3117	61.50	6.09	6.30	1.29	0.80	5.21	3.500
MINIMUM :	33.0	713	17.50	4.03	2.40	0.19	0.05	0.05	0.200
ARITH. MEAN :	69.3	1684	28.63	4.82	3.81	0.49	0.42	1.10	0.898
ARITH. STD. DEV. :	31.7	819	14.34	0.71	1.30	0.34	0.28	1.68	1.026
GEOM. MEAN :	62.8	1503	26.01	4.77	3.61	0.41	0.30	0.28	0.573
1ST QUARTILE :	46.0	1002	20.50	4.34	2.40	0.28	0.13	0.06	0.250
2ND QUARTILE :	56.5	1442	21.00	4.57	3.48	0.35	0.32	0.15	0.480
3RD QUARTILE :	77.0	1751	25.00	4.70	4.35	0.39	0.69	1.32	0.840
VOL. WGT. MEAN :	.	2045	26.75	.	3.85	0.43	0.42	0.98	1.175
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	8	8	8	8	8	8	8	8	8
MAXIMUM :	0.165	0.575	3.284	1.600	0.225	9.90	2.70	18.00	205.50
MINIMUM :	0.010	0.020	0.015	0.238	0.000	0.85	0.13	1.40	4.90
ARITH. MEAN :	0.088	0.184	0.733	0.651	0.050	4.71	0.91	8.20	63.07
ARITH. STD. DEV. :	0.055	0.222	1.080	0.398	0.072	3.18	0.95	6.58	71.11
GEOM. MEAN :	0.064	0.088	0.126	0.558	0.031	3.54	0.49	5.45	25.86
1ST QUARTILE :	0.025	0.025	0.015	0.366	0.002	1.70	0.21	2.20	6.70
2ND QUARTILE :	0.080	0.068	0.075	0.542	0.015	4.40	0.26	5.10	40.75
3RD QUARTILE :	0.135	0.115	1.150	0.722	0.052	8.70	2.00	17.00	79.84
VOL. WGT. MEAN :	0.091	0.239	0.702	0.659	0.068	4.18	0.81	7.62	49.37
MISSING VALUES :	0	0	0	0	0	1	1	1	2

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	8	8	8	8	8	8	8	8
MAXIMUM :	8.70	2.36	105.36	73.00	1.70	1.50	135.00	93.33
MINIMUM :	0.50	0.02	3.50	1.30	0.00	0.11	29.50	0.81
ARITH. MEAN :	3.15	0.43	32.64	20.50	0.48	0.64	62.39	32.41
ARITH. STD. DEV. :	2.81	0.79	40.28	24.95	0.55	0.50	29.65	27.95
GEOM. MEAN :	1.97	0.13	14.55	9.46	0.41	0.44	57.04	15.05
1ST QUARTILE :	0.53	0.03	6.00	4.40	0.09	0.19	45.80	1.20
2ND QUARTILE :	1.60	0.11	8.40	7.90	0.25	0.53	55.40	26.82
3RD QUARTILE :	5.50	0.26	86.00	42.00	0.77	1.20	61.70	44.67
VOL. WGT. MEAN :	2.99	0.28	26.81	18.02	0.51	0.80	57.53	27.91
MISSING VALUES :	1	1	1	1	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: DORION MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	105.0	3144	34.00	5.39	3.90	0.64	0.55	0.12	0.730
MINIMUM :	17.2	374	7.00	4.17	0.45	0.15	0.02	0.02	0.090
ARITH. MEAN :	54.7	1566	12.69	4.75	1.34	0.32	0.15	0.06	0.326
ARITH. STD. DEV. :	30.1	915	6.78	0.28	0.89	0.14	0.13	0.03	0.220
GEOM. MEAN :	46.3	1285	11.54	4.74	1.12	0.29	0.11	0.06	0.257
1ST QUARTILE :	25.1	805	9.00	4.59	0.85	0.22	0.05	0.04	0.120
2ND QUARTILE :	48.0	1365	10.50	4.74	1.05	0.27	0.13	0.06	0.270
3RD QUARTILE :	84.3	2391	13.50	4.88	1.60	0.37	0.19	0.09	0.490
VOL. WGT. MEAN :	.	1969	13.28	.	1.49	0.29	0.14	0.06	0.313
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.090	0.060	0.070	0.670	0.010	5.20	0.31	6.60	49.00
MINIMUM :	0.005	0.006	0.000	0.046	0.000	0.32	0.00	0.56	5.27
ARITH. MEAN :	0.025	0.026	0.030	0.274	0.003	1.95	0.04	2.32	13.30
ARITH. STD. DEV. :	0.022	0.017	0.019	0.213	0.003	1.50	0.09	1.88	14.50
GEOM. MEAN :	0.018	0.021	0.037	0.196	0.055	1.39	0.77	1.74	9.02
1ST QUARTILE :	0.010	0.015	0.020	0.092	0.000	0.58	0.00	1.10	5.32
2ND QUARTILE :	0.015	0.020	0.025	0.166	0.003	1.65	0.00	1.80	6.05
3RD QUARTILE :	0.030	0.040	0.030	0.314	0.003	2.30	0.00	2.40	7.24
VOL. WGT. MEAN :	0.023	0.026	0.030	0.271	0.005	1.72	0.22	2.43	10.16
MISSING VALUES :	0	0	0	0	0	1	1	3	5

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	3.50	2.26	11.00	1.30	0.08	0.30	101.00	67.61
MINIMUM :	0.14	0.02	1.00	0.20	0.00	0.00	26.10	4.07
ARITH. MEAN :	0.85	0.27	3.95	0.49	0.02	0.05	44.67	21.92
ARITH. STD. DEV. :	1.01	0.60	2.74	0.42	0.03	0.09	19.31	15.16
GEOM. MEAN :	0.47	0.10	3.13	0.36	0.51	0.64	41.66	17.91
1ST QUARTILE :	0.24	0.04	1.40	0.20	0.00	0.00	34.00	13.18
2ND QUARTILE :	0.30	0.08	3.35	0.25	0.00	0.00	38.30	18.20
3RD QUARTILE :	1.10	0.15	4.80	0.97	0.00	0.00	45.00	25.70
VOL. WGT. MEAN :	0.90	0.26	3.52	0.50	0.07	0.16	47.21	24.78
MISSING VALUES :	1	1	1	6	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: PICKLE LAKE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	64.3	739	16.50	5.77	1.75	0.33	0.39	0.24	0.350
MINIMUM :	3.9	166	7.50	4.59	0.65	0.24	0.05	0.10	0.090
ARITH. MEAN :	28.7	418	11.50	4.99	1.18	0.29	0.22	0.18	0.213
ARITH. STD. DEV. :	25.8	239	3.74	0.55	0.45	0.04	0.14	0.06	0.107
GEOM. MEAN :	16.5	350	10.91	4.96	1.09	0.29	0.16	0.17	0.185
1ST QUARTILE :	3.9	166	7.50	4.59	0.65	0.24	0.05	0.10	0.090
2ND QUARTILE :	17.9	350	10.50	4.61	1.15	0.30	0.23	0.19	0.200
3RD QUARTILE :	64.3	739	16.50	5.77	1.75	0.33	0.39	0.24	0.350
VOL. WGT. MEAN :	.	632	10.15	.	0.80	0.26	0.13	0.13	0.149
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	0.075	0.025	0.200	0.316	0.002	2.20	0.28	3.30	22.00
MINIMUM :	0.010	0.010	0.065	0.070	0.000	1.30	0.00	2.70	22.00
ARITH. MEAN :	0.050	0.017	0.140	0.193	0.001	1.75	0.14	3.00	22.00
ARITH. STD. DEV. :	0.029	0.006	0.056	0.100	0.001	0.45	0.14	0.30	0.00
GEOM. MEAN :	0.037	0.016	0.126	0.162	0.126	1.69	0.53	2.98	22.00
1ST QUARTILE :	0.010	0.010	0.065	0.070	0.000	1.30	0.00	2.70	22.00
2ND QUARTILE :	0.065	0.015	0.155	0.192	0.000	1.75	0.14	3.00	22.00
3RD QUARTILE :	0.075	0.025	0.200	0.316	0.002	2.20	0.28	3.30	22.00
VOL. WGT. MEAN :	0.026	0.012	0.097	0.127	0.002	1.50	0.28	2.83	22.00
MISSING VALUES :	0	0	0	0	0	1	1	1	2

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN	FREEH+ LAB UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	2.60	0.13	7.50	0.37	0.08	0.28	50.90	25.70
MINIMUM :	0.81	0.04	5.40	0.37	0.00	0.18	23.90	1.70
ARITH. MEAN :	1.71	0.09	6.45	0.37	0.04	0.23	37.60	17.32
ARITH. STD. DEV. :	0.90	0.05	1.05	0.00	0.04	0.05	11.03	11.05
GEOM. MEAN :	1.45	0.07	6.36	0.37	0.28	0.22	35.89	10.23
1ST QUARTILE :	0.81	0.04	5.40	0.37	0.00	0.18	23.90	1.70
2ND QUARTILE :	1.71	0.09	6.45	0.37	0.04	0.23	38.00	24.55
3RD QUARTILE :	2.60	0.13	7.50	0.37	0.08	0.28	50.90	25.70
VOL. WGT. MEAN :	1.20	0.06	7.04	0.37	0.08	0.20	35.65	19.85
MISSING VALUES :	1	1	1	2	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: QUETICO CENTRE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	22.0	690	14.50	5.08	1.20	0.42	0.11	0.13	0.450
MINIMUM :	13.4	296	12.00	4.50	0.40	0.34	0.05	0.10	0.080
ARITH. MEAN :	18.8	524	12.83	4.75	0.77	0.39	0.09	0.11	0.227
ARITH. STD. DEV. :	3.8	167	1.18	0.24	0.33	0.03	0.03	0.01	0.160
GEOM. MEAN :	18.3	493	12.78	4.74	0.70	0.39	0.08	0.11	0.175
1ST QUARTILE :	13.4	296	12.00	4.50	0.40	0.34	0.05	0.10	0.080
2ND QUARTILE :	20.9	587	12.00	4.67	0.70	0.40	0.10	0.11	0.150
3RD QUARTILE :	22.0	690	14.50	5.08	1.20	0.42	0.11	0.13	0.450
VOL. WGT. MEAN :	.	556	12.93	.	0.78	0.39	0.08	0.11	0.241
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3	3
MAXIMUM :	0.020	0.010	0.100	0.398	0.009	1.20	2.50	1.90	10.81
MINIMUM :	0.010	0.000	0.070	0.010	0.006	0.72	0.22	1.90	10.81
ARITH. MEAN :	0.013	0.005	0.088	0.154	0.008	0.96	1.36	1.90	10.81
ARITH. STD. DEV. :	0.005	0.004	0.013	0.173	0.001	0.24	1.14	0.00	0.00
GEOM. MEAN :	0.013	0.037	0.087	0.060	0.008	0.93	0.74	1.90	10.81
1ST QUARTILE :	0.010	0.000	0.070	0.010	0.006	0.72	0.22	1.90	10.81
2ND QUARTILE :	0.010	0.005	0.095	0.054	0.008	0.96	1.36	1.90	10.81
3RD QUARTILE :	0.020	0.010	0.100	0.398	0.009	1.20	2.50	1.90	10.81
VOL. WGT. MEAN :	0.012	0.007	0.088	0.172	0.007	0.97	1.33	1.90	10.81
MISSING VALUES :	0	0	0	0	0	1	1	2	2

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	0.52	0.08	17.00	0.24	0.07	0.23	49.20	31.62
MINIMUM :	0.24	0.01	13.00	0.24	0.00	0.00	33.30	8.32
ARITH. MEAN :	0.38	0.05	15.00	0.24	0.04	0.12	42.97	20.44
ARITH. STD. DEV. :	0.14	0.04	2.00	0.00	0.04	0.12	6.93	9.54
GEOM. MEAN :	0.35	0.03	14.87	0.24	0.26	0.48	42.36	17.78
1ST QUARTILE :	0.24	0.01	13.00	0.24	0.00	0.00	33.30	8.32
2ND QUARTILE :	0.38	0.05	15.00	0.24	0.04	0.12	46.40	21.38
3RD QUARTILE :	0.52	0.08	17.00	0.24	0.07	0.23	49.20	31.62
VOL. WGT. MEAN :	0.38	0.05	14.95	0.24	0.07	0.23	42.32	20.08
MISSING VALUES :	1	1	1	2	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: E.L.A. MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	156.5	3376	14.00	6.29	2.90	0.42	0.69	0.10	2.200
MINIMUM :	10.9	137	4.00	4.56	0.55	0.10	0.06	0.00	0.150
ARITH. MEAN :	57.8	1145	8.92	5.11	1.08	0.27	0.19	0.06	0.511
ARITH. STD. DEV. :	38.5	826	2.96	0.50	0.62	0.09	0.19	0.03	0.549
GEOM. MEAN :	46.8	826	8.39	5.08	0.95	0.25	0.14	0.07	0.364
1ST QUARTILE :	31.0	543	6.00	4.78	0.60	0.19	0.07	0.03	0.190
2ND QUARTILE :	57.7	1121	8.50	4.90	0.90	0.26	0.13	0.06	0.330
3RD QUARTILE :	62.1	1462	11.00	5.31	1.10	0.29	0.15	0.08	0.450
VOL. WGT. MEAN :	.	1541	7.49	.	0.97	0.22	0.16	0.06	0.378
MISSING VALUES :	0	0	1	1	1	1	1	1	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.155	0.095	0.110	0.814	0.031	6.60	0.20	3.90	99.61
MINIMUM :	0.010	0.010	0.000	0.050	0.000	1.10	0.00	0.27	5.18
ARITH. MEAN :	0.037	0.031	0.046	0.259	0.008	2.16	0.04	1.54	28.34
ARITH. STD. DEV. :	0.040	0.027	0.030	0.196	0.010	1.58	0.08	0.91	35.81
GEOM. MEAN :	0.026	0.023	0.057	0.200	0.022	1.82	0.72	1.29	15.45
1ST QUARTILE :	0.015	0.010	0.025	0.126	0.000	1.20	0.00	1.00	8.50
2ND QUARTILE :	0.024	0.018	0.043	0.221	0.004	1.65	0.00	1.35	13.39
3RD QUARTILE :	0.030	0.030	0.050	0.280	0.007	2.20	0.00	1.70	15.00
VOL. WGT. MEAN :	0.029	0.026	0.045	0.241	0.009	2.01	0.19	1.41	16.45
MISSING VALUES :	1	1	1	1	1	3	3	3	8

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	3.40	0.10	12.00	3.80	0.19	0.19	47.60	27.54
MINIMUM :	0.07	0.02	0.69	0.17	0.00	0.00	20.00	0.51
ARITH. MEAN :	1.02	0.07	4.33	0.92	0.02	0.07	33.78	11.79
ARITH. STD. DEV. :	1.25	0.02	3.66	1.29	0.06	0.08	8.75	7.52
GEOM. MEAN :	0.47	0.07	2.96	0.48	0.85	0.48	32.58	7.82
1ST QUARTILE :	0.20	0.05	1.20	0.21	0.00	0.00	23.70	4.90
2ND QUARTILE :	0.28	0.08	3.50	0.43	0.00	0.00	34.60	12.59
3RD QUARTILE :	1.10	0.09	5.50	0.51	0.00	0.17	38.50	15.14
VOL. WGT. MEAN :	0.88	0.06	3.02	0.84	0.19	0.16	31.15	9.80
MISSING VALUES :	4	3	3	7	3	3	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: GERALDTON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	83.6	1890	24.00	6.26	2.25	0.57	0.46	0.18	0.470
MINIMUM :	8.2	125	5.00	4.30	0.45	0.13	0.04	0.02	0.100
ARITH. MEAN :	49.6	962	11.31	4.89	1.17	0.27	0.17	0.07	0.272
ARITH. STD. DEV. :	22.1	577	5.21	0.47	0.47	0.13	0.12	0.04	0.112
GEOM. MEAN :	42.6	728	10.25	4.87	1.08	0.25	0.13	0.06	0.246
1ST QUARTILE :	32.0	421	7.00	4.63	0.80	0.20	0.06	0.05	0.160
2ND QUARTILE :	52.0	816	10.50	4.89	1.20	0.23	0.13	0.06	0.270
3RD QUARTILE :	65.0	1435	13.50	4.95	1.35	0.29	0.21	0.08	0.350
VOL. WGT. MEAN :	.	1099	11.28	.	1.21	0.25	0.14	0.06	0.265
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.090	0.125	0.150	0.342	0.012	2.60	0.31	13.00	19.69
MINIMUM :	0.005	0.004	0.010	0.000	0.000	0.20	0.00	0.39	4.60
ARITH. MEAN :	0.029	0.034	0.052	0.192	0.003	1.25	0.07	2.31	10.62
ARITH. STD. DEV. :	0.022	0.030	0.041	0.101	0.004	0.81	0.12	3.60	4.91
GEOM. MEAN :	0.022	0.024	0.040	0.211	0.059	0.93	0.66	1.26	9.52
1ST QUARTILE :	0.010	0.015	0.025	0.124	0.000	0.51	0.00	0.70	6.36
2ND QUARTILE :	0.025	0.030	0.040	0.212	0.003	1.30	0.00	1.35	10.03
3RD QUARTILE :	0.040	0.035	0.045	0.272	0.005	1.90	0.11	1.70	13.00
VOL. WGT. MEAN :	0.024	0.033	0.047	0.214	0.006	1.25	0.25	1.99	10.23
MISSING VALUES :	0	0	0	0	0	2	2	3	7

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	3.30	0.11	33.00	0.64	0.25	0.13	72.70	50.12
MINIMUM :	0.08	0.03	0.38	0.12	0.00	0.00	19.60	0.55
ARITH. MEAN :	1.17	0.06	6.83	0.34	0.03	0.01	39.87	18.90
ARITH. STD. DEV. :	1.25	0.03	8.65	0.21	0.07	0.04	14.44	13.73
GEOM. MEAN :	0.56	0.06	3.89	0.28	0.70	0.83	37.45	12.93
1ST QUARTILE :	0.21	0.04	1.90	0.16	0.00	0.00	30.20	11.22
2ND QUARTILE :	0.45	0.06	4.90	0.26	0.00	0.00	38.00	12.88
3RD QUARTILE :	2.50	0.10	7.50	0.62	0.00	0.00	45.00	23.44
VOL. WGT. MEAN :	1.06	0.06	6.19	0.33	0.16	0.13	39.82	19.31
MISSING VALUES :	3	2	2	7	2	2	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

STATION: WOLF RIDGE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	167.0	4795	40.50	6.11	3.65	0.84	0.47	0.17	0.910
MINIMUM :	9.2	277	6.00	4.16	0.55	0.14	0.04	0.03	0.100
ARITH. MEAN :	73.2	1862	17.23	4.82	1.93	0.39	0.20	0.08	0.456
ARITH. STD. DEV. :	48.2	1239	9.98	0.55	0.96	0.21	0.12	0.04	0.243
GEOM. MEAN :	54.0	1383	14.53	4.79	1.65	0.34	0.16	0.07	0.384
1ST QUARTILE :	25.0	1191	8.00	4.36	1.20	0.25	0.14	0.05	0.300
2ND QUARTILE :	61.4	1555	16.50	4.82	2.10	0.32	0.17	0.07	0.430
3RD QUARTILE :	103.0	2689	21.50	5.18	2.35	0.38	0.21	0.08	0.520
VOL. WGT. MEAN :	.	2634	15.22	.	1.92	0.29	0.16	0.06	0.424
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.080	0.075	0.125	0.818	0.041	6.10	0.26	4.40	28.00
MINIMUM :	0.005	0.012	0.015	0.078	0.000	0.36	0.00	0.31	5.78
ARITH. MEAN :	0.031	0.032	0.044	0.396	0.007	2.37	0.02	1.99	13.45
ARITH. STD. DEV. :	0.019	0.017	0.035	0.210	0.010	1.54	0.07	1.10	8.45
GEOM. MEAN :	0.026	0.029	0.035	0.335	0.021	1.86	0.88	1.64	11.17
1ST QUARTILE :	0.020	0.020	0.025	0.260	0.002	1.80	0.00	1.40	7.36
2ND QUARTILE :	0.030	0.025	0.028	0.302	0.006	2.10	0.00	1.90	8.10
3RD QUARTILE :	0.035	0.040	0.045	0.486	0.008	2.60	0.00	2.10	18.00
VOL. WGT. MEAN :	0.026	0.031	0.031	0.377	0.011	2.08	0.26	1.61	15.05
MISSING VALUES :	0	0	0	0	0	2	2	3	0

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	3.60	2.82	19.00	1.80	0.15	0.42	106.00	69.18
MINIMUM :	0.13	0.01	1.20	0.19	0.00	0.00	25.90	0.78
ARITH. MEAN :	1.03	0.34	4.15	0.79	0.03	0.16	51.72	27.03
ARITH. STD. DEV. :	1.11	0.79	4.78	0.55	0.05	0.14	25.97	22.95
GEOM. MEAN :	0.55	0.09	3.00	0.60	0.53	0.40	45.73	15.24
1ST QUARTILE :	0.20	0.05	2.30	0.29	0.00	0.00	29.10	6.61
2ND QUARTILE :	0.33	0.08	2.50	0.71	0.00	0.18	37.80	15.14
3RD QUARTILE :	2.00	0.17	4.20	1.04	0.06	0.26	68.60	43.65
VOL. WGT. MEAN :	1.01	0.24	2.89	0.62	0.09	0.25	47.86	24.81
MISSING VALUES :	2	2	2	7	2	2	0	0

PART IV

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY REGION

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

REGION: CE

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	55	55	55	55	55	55	55	55	55
MAXIMUM :	167.0	4795	55.50	6.41	5.90	1.30	0.92	1.75	3.600
MINIMUM :	8.0	206	6.00	3.96	0.55	0.14	0.04	0.02	0.090
ARITH. MEAN :	69.2	1721	24.15	4.55	2.45	0.50	0.27	0.17	0.505
ARITH. STD. DEV. :	35.7	997	10.79	0.52	1.13	0.21	0.20	0.24	0.481
GEOM. MEAN :	58.6	1401	21.64	4.52	2.18	0.45	0.20	0.12	0.399
1ST QUARTILE :	46.0	1125	16.50	4.27	1.75	0.34	0.14	0.07	0.270
2ND QUARTILE :	66.0	1410	22.50	4.39	2.30	0.46	0.20	0.13	0.430
3RD QUARTILE :	88.0	2344	30.00	4.55	3.25	0.62	0.31	0.18	0.550
VOL. WGT. MEAN :	.	2160	22.85	.	2.40	0.45	0.22	0.13	0.487
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	55	55	55	55	55	55	55	55	55
MAXIMUM :	0.235	0.465	0.935	1.690	0.300	6.10	1.10	12.00	228.35
MINIMUM :	0.005	0.000	0.000	0.078	0.000	0.36	0.00	0.16	4.40
ARITH. MEAN :	0.047	0.048	0.079	0.408	0.013	2.06	0.09	3.13	26.32
ARITH. STD. DEV. :	0.041	0.066	0.133	0.260	0.041	1.35	0.18	2.18	50.27
GEOM. MEAN :	0.034	0.036	0.052	0.343	0.032	1.65	0.61	2.35	13.24
1ST QUARTILE :	0.020	0.020	0.025	0.248	0.000	1.10	0.00	1.70	6.70
2ND QUARTILE :	0.035	0.030	0.050	0.356	0.003	1.80	0.00	2.50	12.50
3RD QUARTILE :	0.055	0.055	0.075	0.520	0.009	2.60	0.13	4.30	16.00
VOL. WGT. MEAN :	0.039	0.044	0.059	0.398	0.017	1.85	0.29	2.75	33.18
MISSING VALUES :	0	0	0	0	0	5	5	10	29

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	55	55	55	55	55	55	55	55
MAXIMUM :	4.50	2.82	83.00	2.50	0.24	0.42	134.00	109.65
MINIMUM :	0.13	0.01	1.20	0.15	0.00	0.00	20.90	0.39
ARITH. MEAN :	1.12	0.19	11.62	0.89	0.02	0.08	65.51	40.92
ARITH. STD. DEV. :	0.94	0.39	16.00	0.63	0.05	0.10	24.90	23.67
GEOM. MEAN :	0.82	0.11	6.74	0.68	0.62	0.44	60.41	28.20
1ST QUARTILE :	0.44	0.07	3.20	0.41	0.00	0.00	52.10	28.18
2ND QUARTILE :	0.80	0.12	5.90	0.63	0.00	0.00	63.50	40.74
3RD QUARTILE :	1.70	0.20	13.00	1.40	0.00	0.15	78.80	53.70
VOL. WGT. MEAN :	1.18	0.18	13.25	0.84	0.11	0.18	63.44	39.86
MISSING VALUES :	6	5	5	24	5	5	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

REGION: NE

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	83	83	83	83	83	83	83	83	83
MAXIMUM :	207.0	4418	61.50	7.09	6.30	1.30	1.28	5.21	4.500
MINIMUM :	12.0	0	5.00	3.97	0.00	0.11	0.03	0.03	0.000
ARITH. MEAN :	73.6	1649	21.70	4.71	2.58	0.39	0.24	0.30	0.638
ARITH. STD. DEV. :	37.4	1024	10.46	0.64	1.09	0.22	0.22	0.70	0.700
GEOM. MEAN :	63.6	1080	19.31	4.67	2.38	0.34	0.18	0.13	0.474
1ST QUARTILE :	43.0	888	15.00	4.34	2.00	0.27	0.11	0.06	0.260
2ND QUARTILE :	66.0	1369	20.50	4.47	2.43	0.34	0.15	0.09	0.390
3RD QUARTILE :	98.0	2440	26.00	4.85	3.15	0.42	0.29	0.16	0.630
VOL. WGT. MEAN :	.	2113	20.37	.	2.52	0.37	0.26	0.33	0.741
MISSING VALUES :	0	0	7	5	7	7	7	7	5

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	83	83	83	83	83	83	83	83	83
MAXIMUM :	0.245	0.605	3.284	1.910	0.225	14.00	2.70	105.00	205.50
MINIMUM :	0.005	0.010	0.000	0.078	0.000	0.00	0.00	0.22	4.90
ARITH. MEAN :	0.049	0.106	0.192	0.449	0.023	2.61	0.25	11.30	40.07
ARITH. STD. DEV. :	0.045	0.144	0.467	0.302	0.040	2.60	0.46	20.71	52.33
GEOM. MEAN :	0.035	0.058	0.068	0.376	0.016	1.78	0.49	4.85	19.79
1ST QUARTILE :	0.020	0.025	0.025	0.254	0.003	1.20	0.00	2.40	6.34
2ND QUARTILE :	0.035	0.045	0.040	0.360	0.005	1.80	0.12	4.40	18.00
3RD QUARTILE :	0.055	0.100	0.085	0.534	0.023	3.10	0.24	7.40	46.00
VOL. WGT. MEAN :	0.055	0.118	0.227	0.450	0.025	2.77	0.44	13.98	35.68
MISSING VALUES :	7	7	7	7	4	13	13	24	48

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	83	83	83	83	83	83	83	83
MAXIMUM :	20.00	192.64	105.36	140.00	2.00	6.30	136.00	107.15
MINIMUM :	0.07	0.01	0.86	0.15	0.00	0.00	21.60	0.08
ARITH. MEAN :	2.20	3.39	10.96	11.59	0.26	0.46	59.32	33.91
ARITH. STD. DEV. :	3.45	23.01	18.18	24.10	0.48	1.00	26.68	24.25
GEOM. MEAN :	1.16	0.12	6.22	2.93	0.52	0.56	53.79	19.49
1ST QUARTILE :	0.54	0.04	3.60	0.97	0.00	0.00	38.60	14.13
2ND QUARTILE :	1.10	0.10	5.70	2.10	0.03	0.16	56.50	33.88
3RD QUARTILE :	2.40	0.15	8.50	10.00	0.23	0.35	71.90	45.71
VOL. WGT. MEAN :	1.86	2.48	10.40	9.75	0.53	0.68	55.26	29.76
MISSING VALUES :	14	14	13	23	13	13	5	5

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

REGION: NW

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	45	45	45	45	45	45	45	45	45
MAXIMUM :	156.5	3376	34.00	6.29	3.90	0.64	0.69	0.24	2.200
MINIMUM :	3.9	125	4.00	4.17	0.40	0.10	0.02	0.00	0.080
ARITH. MEAN :	50.0	1124	11.18	4.90	1.17	0.29	0.17	0.08	0.346
ARITH. STD. DEV. :	31.5	814	5.22	0.45	0.67	0.12	0.15	0.05	0.338
GEOM. MEAN :	39.8	826	10.25	4.88	1.02	0.27	0.12	0.07	0.266
1ST QUARTILE :	24.5	475	7.50	4.61	0.70	0.20	0.06	0.05	0.150
2ND QUARTILE :	48.0	889	10.50	4.82	1.03	0.27	0.13	0.06	0.270
3RD QUARTILE :	63.2	1470	12.50	4.95	1.40	0.34	0.20	0.10	0.410
VOL. WGT. MEAN :	.	1490	10.73	.	1.20	0.26	0.14	0.06	0.311
MISSING VALUES :	0	0	1	1	1	1	1	1	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	45	45	45	45	45	45	45	45	45
MAXIMUM :	0.155	0.125	0.200	0.814	0.031	6.60	2.50	13.00	99.61
MINIMUM :	0.005	0.000	0.000	0.000	0.000	0.20	0.00	0.27	4.60
ARITH. MEAN :	0.030	0.028	0.052	0.232	0.004	1.73	0.12	2.11	16.41
ARITH. STD. DEV. :	0.029	0.025	0.043	0.177	0.006	1.33	0.41	2.33	21.03
GEOM. MEAN :	0.022	0.023	0.049	0.183	0.040	1.31	0.70	1.49	10.96
1ST QUARTILE :	0.010	0.010	0.025	0.092	0.000	0.77	0.00	1.00	5.70
2ND QUARTILE :	0.021	0.020	0.040	0.212	0.003	1.40	0.00	1.40	9.05
3RD QUARTILE :	0.035	0.035	0.070	0.308	0.006	2.20	0.11	2.00	15.00
VOL. WGT. MEAN :	0.025	0.027	0.044	0.237	0.007	1.65	0.41	1.96	12.05
MISSING VALUES :	1	1	1	1	1	8	8	12	24

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	45	45	45	45	45	45	45	45
MAXIMUM :	3.50	2.26	33.00	3.80	0.25	0.30	101.00	67.61
MINIMUM :	0.07	0.01	0.38	0.12	0.00	0.00	19.60	0.51
ARITH. MEAN :	1.00	0.13	5.64	0.56	0.02	0.05	39.68	17.85
ARITH. STD. DEV. :	1.14	0.36	5.93	0.78	0.05	0.09	14.91	13.01
GEOM. MEAN :	0.52	0.07	3.72	0.36	0.60	0.59	37.41	12.48
1ST QUARTILE :	0.23	0.04	1.90	0.20	0.00	0.00	30.20	8.51
2ND QUARTILE :	0.38	0.06	3.70	0.29	0.00	0.00	37.90	15.31
3RD QUARTILE :	1.20	0.10	7.30	0.51	0.00	0.11	45.00	23.44
VOL. WGT. MEAN :	0.94	0.13	4.51	0.53	0.11	0.17	39.38	18.12
MISSING VALUES :	10	8	8	24	8	8	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

REGION: SE

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	29	29	29	29	29	29	29	29	29
MAXIMUM :	112.0	3525	52.50	4.54	6.00	1.20	0.57	0.36	2.040
MINIMUM :	2.4	0	15.00	3.93	0.70	0.30	0.04	0.06	0.090
ARITH. MEAN :	56.1	1370	30.84	4.25	2.95	0.61	0.24	0.16	0.514
ARITH. STD. DEV. :	27.0	718	10.19	0.16	1.44	0.22	0.14	0.08	0.393
GEOM. MEAN :	45.0	958	29.11	4.25	2.56	0.57	0.19	0.14	0.405
1ST QUARTILE :	41.7	914	21.00	4.14	1.80	0.42	0.12	0.10	0.300
2ND QUARTILE :	54.0	1468	32.00	4.22	2.85	0.60	0.19	0.14	0.450
3RD QUARTILE :	67.0	1705	36.50	4.39	3.40	0.69	0.33	0.18	0.560
VOL. WGT. MEAN :	.	1714	29.31	.	2.91	0.56	0.23	0.14	0.517
MISSING VALUES :	0	0	1	1	1	1	1	1	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	29	29	29	29	29	29	29	29	29
MAXIMUM :	0.105	0.855	0.245	1.580	0.138	5.30	0.56	9.00	121.10
MINIMUM :	0.005	0.000	0.000	0.082	0.000	0.27	0.00	1.30	7.50
ARITH. MEAN :	0.044	0.065	0.070	0.414	0.016	2.07	0.08	4.74	21.60
ARITH. STD. DEV. :	0.027	0.157	0.055	0.329	0.036	1.13	0.14	2.23	23.82
GEOM. MEAN :	0.035	0.035	0.063	0.318	0.031	1.72	0.61	4.17	16.11
1ST QUARTILE :	0.020	0.015	0.030	0.170	0.000	1.30	0.00	3.10	10.00
2ND QUARTILE :	0.035	0.025	0.050	0.383	0.003	1.70	0.00	4.60	14.00
3RD QUARTILE :	0.060	0.040	0.090	0.452	0.008	3.00	0.18	6.10	22.00
VOL. WGT. MEAN :	0.042	0.073	0.062	0.418	0.022	1.95	0.21	4.62	21.06
MISSING VALUES :	1	1	1	1	1	2	2	4	7

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	29	29	29	29	29	29	29	29
MAXIMUM :	4.90	0.59	45.00	2.30	2.00	0.24	144.00	117.49
MINIMUM :	0.59	0.04	3.90	0.24	0.00	0.00	56.00	28.84
ARITH. MEAN :	1.87	0.22	17.19	0.97	0.14	0.05	84.09	59.47
ARITH. STD. DEV. :	1.03	0.12	9.75	0.59	0.37	0.08	22.35	21.84
GEOM. MEAN :	1.60	0.19	14.57	0.79	0.38	0.53	81.32	55.73
1ST QUARTILE :	1.10	0.12	10.00	0.57	0.00	0.00	64.90	39.81
2ND QUARTILE :	1.60	0.17	16.00	0.88	0.06	0.00	85.70	60.26
3RD QUARTILE :	2.50	0.29	22.00	1.00	0.15	0.12	96.80	72.44
VOL. WGT. MEAN :	1.78	0.19	16.20	0.90	0.31	0.16	79.50	55.23
MISSING VALUES :	4	2	2	16	2	2	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

REGION: SW

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	57	57	57	57	57	57	57	57	57
MAXIMUM :	145.0	3304	89.00	7.10	8.60	1.81	3.39	1.35	2.210
MINIMUM :	17.0	0	12.00	3.72	1.00	0.01	0.05	0.01	0.240
ARITH. MEAN :	63.0	1356	31.91	4.58	3.77	0.69	0.58	0.27	0.664
ARITH. STD. DEV. :	31.7	859	15.49	0.79	1.74	0.31	0.54	0.22	0.381
GEOM. MEAN :	55.2	877	29.13	4.52	3.42	0.61	0.43	0.21	0.585
1ST QUARTILE :	38.0	771	23.50	4.20	2.55	0.48	0.28	0.16	0.420
2ND QUARTILE :	55.0	1175	26.75	4.36	3.45	0.63	0.42	0.19	0.640
3RD QUARTILE :	91.0	1901	36.50	4.46	4.20	0.89	0.74	0.29	0.770
VOL. WGT. MEAN :	.	1671	29.00	.	3.44	0.63	0.50	0.25	0.664
MISSING VALUES :	0	0	3	3	4	4	4	4	4

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	57	57	57	57	57	57	57	57	57
MAXIMUM :	0.700	0.420	0.825	3.460	0.450	11.00	2.20	32.00	267.00
MINIMUM :	0.010	0.010	0.015	0.134	0.000	0.26	0.00	1.80	4.20
ARITH. MEAN :	0.122	0.070	0.136	0.593	0.026	3.26	0.20	7.19	41.63
ARITH. STD. DEV. :	0.119	0.074	0.170	0.463	0.066	2.11	0.38	5.37	67.34
GEOM. MEAN :	0.089	0.050	0.085	0.504	0.014	2.55	0.55	5.85	17.39
1ST QUARTILE :	0.050	0.030	0.040	0.376	0.004	1.70	0.00	3.90	6.10
2ND QUARTILE :	0.085	0.045	0.095	0.530	0.006	2.85	0.00	5.75	13.00
3RD QUARTILE :	0.130	0.075	0.140	0.672	0.016	4.30	0.23	9.00	34.66
VOL. WGT. MEAN :	0.107	0.073	0.128	0.615	0.034	2.79	0.34	6.38	26.63
MISSING VALUES :	4	4	4	4	4	9	9	17	21

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	57	57	57	57	57	57	57	57
MAXIMUM :	6.00	0.96	70.00	3.30	0.50	0.44	211.00	190.55
MINIMUM :	0.14	0.01	3.50	0.11	0.00	0.00	16.20	0.08
ARITH. MEAN :	1.35	0.21	15.02	0.94	0.10	0.10	79.11	51.75
ARITH. STD. DEV. :	1.28	0.15	15.10	0.73	0.12	0.12	40.01	39.80
GEOM. MEAN :	0.99	0.17	10.85	0.72	0.27	0.44	69.64	26.26
1ST QUARTILE :	0.66	0.13	6.00	0.50	0.00	0.00	60.40	34.67
2ND QUARTILE :	0.93	0.17	9.45	0.75	0.07	0.06	70.40	43.66
3RD QUARTILE :	1.40	0.26	17.00	1.20	0.12	0.17	86.40	63.10
VOL. WGT. MEAN :	1.19	0.19	12.62	0.85	0.15	0.19	71.87	45.07
MISSING VALUES :	9	9	9	19	9	9	4	3

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF CONCENTRATION

REGION: Z

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	167.0	4795	40.50	6.11	3.65	0.84	0.47	0.17	0.910
MINIMUM :	9.2	277	6.00	4.16	0.55	0.14	0.04	0.03	0.100
ARITH. MEAN :	73.2	1862	17.23	4.82	1.93	0.39	0.20	0.08	0.456
ARITH. STD. DEV. :	48.2	1239	9.98	0.55	0.96	0.21	0.12	0.04	0.243
GEOM. MEAN :	54.0	1383	14.53	4.79	1.65	0.34	0.16	0.07	0.384
1ST QUARTILE :	25.0	1191	8.00	4.36	1.20	0.25	0.14	0.05	0.300
2ND QUARTILE :	61.4	1555	16.50	4.82	2.10	0.32	0.17	0.07	0.430
3RD QUARTILE :	103.0	2689	21.50	5.18	2.35	0.38	0.21	0.08	0.520
VOL. WGT. MEAN :	.	2634	15.22	.	1.92	0.29	0.16	0.06	0.424
MISSING VALUES :	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13	13
MAXIMUM :	0.080	0.075	0.125	0.818	0.041	6.10	0.26	4.40	28.00
MINIMUM :	0.005	0.012	0.015	0.078	0.000	0.36	0.00	0.31	5.78
ARITH. MEAN :	0.031	0.032	0.044	0.396	0.007	2.37	0.02	1.99	13.45
ARITH. STD. DEV. :	0.019	0.017	0.035	0.210	0.010	1.54	0.07	1.10	8.45
GEOM. MEAN :	0.026	0.029	0.035	0.335	0.021	1.86	0.88	1.64	11.17
1ST QUARTILE :	0.020	0.020	0.025	0.260	0.002	1.80	0.00	1.40	7.36
2ND QUARTILE :	0.030	0.025	0.028	0.302	0.006	2.10	0.00	1.90	8.10
3RD QUARTILE :	0.035	0.040	0.045	0.486	0.008	2.60	0.00	2.10	18.00
VOL. WGT. MEAN :	0.026	0.031	0.031	0.377	0.011	2.08	0.26	1.61	15.05
MISSING VALUES :	0	0	0	0	0	2	2	3	8

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	3.60	2.82	19.00	1.80	0.15	0.42	106.00	69.18
MINIMUM :	0.13	0.01	1.20	0.19	0.00	0.00	25.90	0.78
ARITH. MEAN :	1.03	0.34	4.15	0.79	0.03	0.16	51.72	27.03
ARITH. STD. DEV. :	1.11	0.79	4.78	0.55	0.05	0.14	25.97	22.95
GEOM. MEAN :	0.55	0.09	3.00	0.60	0.53	0.40	45.73	15.24
1ST QUARTILE :	0.20	0.05	2.30	0.29	0.00	0.00	29.10	6.61
2ND QUARTILE :	0.33	0.08	2.50	0.71	0.00	0.18	37.80	15.14
3RD QUARTILE :	2.00	0.17	4.20	1.04	0.06	0.26	68.60	43.65
VOL. WGT. MEAN :	1.01	0.24	2.89	0.62	0.09	0.25	47.86	24.81
MISSING VALUES :	2	2	2	7	2	2	0	0

PART V

SUMMARY STATISTICS OF PRECIPITATION DEPOSITION BY STATION

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: COLCHESTER MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	101.0	217.15	39.39	25.09	19.19	24.240	4.916	1.476
MINIMUM :	33.9	95.94	31.87	5.05	12.54	11.439	1.515	1.010
ARITH. MEAN :	57.3	143.35	34.70	16.69	16.11	18.334	3.497	1.168
ARITH. STD. DEV. :	30.9	52.89	3.34	8.49	2.74	5.273	1.444	0.218
GEOM. MEAN :	50.2	134.56	34.54	13.62	15.87	17.498	3.115	1.149
1ST QUARTILE :	33.9	95.94	31.87	5.05	12.54	11.439	1.515	1.010
2ND QUARTILE :	36.9	116.96	32.84	19.93	16.61	19.323	4.059	1.017
3RD QUARTILE :	101.0	217.15	39.39	25.09	19.19	24.240	4.916	1.476
VOL. WGT. MEAN :	.	143.35	34.70	16.69	16.11	18.334	3.497	1.168
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	6.089	20.200	0.332	158.67	21.03	516.60	1734.30	111.10
MINIMUM :	3.899	10.037	0.000	72.72	10.51	264.42	545.40	47.46
ARITH. MEAN :	5.349	16.068	0.156	127.98	14.55	421.94	1008.50	77.45
ARITH. STD. DEV. :	1.026	4.361	0.136	39.15	4.63	112.14	519.70	26.11
GEOM. MEAN :	5.240	15.387	0.356	120.74	13.89	404.58	890.20	73.01
1ST QUARTILE :	3.899	10.037	0.000	72.72	10.51	264.42	545.40	47.46
2ND QUARTILE :	6.060	17.967	0.136	152.55	12.12	484.80	745.80	73.80
3RD QUARTILE :	6.089	20.200	0.332	158.67	21.03	516.60	1734.30	111.10
VOL. WGT. MEAN :	5.349	16.068	0.378	127.98	14.55	421.94	1008.50	77.45
MISSING VALUES :	0	0	0	0	0	0	0	0

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3
MAXIMUM :	16.16	1586.70	75.75	12.12	15.13	8069.90	5061.99
MINIMUM :	8.81	555.50	75.75	4.43	0.00	2928.96	1862.94
ARITH. MEAN :	11.28	917.47	75.75	8.00	6.63	4692.11	3016.10
ARITH. STD. DEV. :	3.45	473.75	0.00	3.16	6.32	2389.23	1450.56
GEOM. MEAN :	10.80	813.24	75.75	7.37	4.16	4174.37	2715.50
1ST QUARTILE :	8.81	555.50	75.75	4.43	0.00	2928.96	1862.94
2ND QUARTILE :	8.86	610.20	75.75	7.46	4.75	3077.46	2123.37
3RD QUARTILE :	16.16	1586.70	75.75	12.12	15.13	8069.90	5061.99
VOL. WGT. MEAN :	11.28	917.47	42.95	8.00	16.08	4692.11	3016.10
MISSING VALUES :	0	0	2	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: MERLIN MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	127.0	674.50	90.25	128.80	36.63	247.520	29.680	47.040
MINIMUM :	18.0	89.76	19.44	8.80	3.06	14.784	1.760	0.810
ARITH. MEAN :	58.0	242.47	41.50	41.65	16.84	46.478	8.597	5.783
ARITH. STD. DEV. :	35.4	186.46	22.24	34.10	11.12	60.326	7.733	11.965
GEOM. MEAN :	48.3	194.55	36.38	30.57	12.68	31.038	6.061	2.581
1ST QUARTILE :	34.0	139.40	22.18	21.78	6.12	17.028	4.715	1.290
2ND QUARTILE :	41.0	159.80	34.95	28.60	14.50	27.060	5.950	2.870
3RD QUARTILE :	95.0	232.65	47.06	49.20	23.37	33.500	8.255	3.250
VOL. WGT. MEAN :	.	242.47	41.50	41.65	16.84	46.478	8.597	5.783
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	19.762	387.520	50.400	484.50	53.02	1904.00	6434.70	370.50
MINIMUM :	0.540	9.351	0.000	13.00	0.00	118.68	180.40	23.46
ARITH. MEAN :	7.996	53.184	4.360	175.38	12.32	420.97	1419.72	79.67
ARITH. STD. DEV. :	6.757	97.674	13.296	127.88	16.65	535.68	1873.73	91.23
GEOM. MEAN :	4.774	27.155	0.654	126.67	4.69	270.01	741.18	55.81
1ST QUARTILE :	2.040	15.170	0.260	72.24	0.00	140.40	342.00	31.20
2ND QUARTILE :	4.400	21.080	0.450	144.10	4.47	228.60	589.73	42.83
3RD QUARTILE :	13.325	28.800	0.820	219.31	16.15	313.30	1548.80	87.12
VOL. WGT. MEAN :	7.996	53.184	4.574	171.20	21.00	420.19	1346.84	77.77
MISSING VALUES :	0	0	0	1	1	4	3	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	45.54	1805.00	324.80	56.00	16.80	11020.00	8664.10
MINIMUM :	1.50	292.40	6.00	0.00	0.00	407.29	2.25
ARITH. MEAN :	14.43	770.08	67.75	12.39	4.70	4385.26	2778.60
ARITH. STD. DEV. :	12.91	539.39	89.45	14.90	5.69	2740.10	2186.54
GEOM. MEAN :	8.85	607.26	38.58	6.80	2.86	3492.89	1053.43
1ST QUARTILE :	2.87	309.60	25.20	2.86	0.00	2911.04	1748.98
2ND QUARTILE :	11.75	535.60	28.74	7.96	1.82	3294.00	2564.31
3RD QUARTILE :	20.32	862.40	85.80	13.97	10.56	4860.72	3255.74
VOL. WGT. MEAN :	14.09	751.72	61.66	14.11	10.42	4385.26	2778.60
MISSING VALUES :	1	1	3	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: PORT STANLEY MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	120.0	452.20	76.80	46.80	30.00	63.600	9.600	6.600
MINIMUM :	29.0	98.99	12.63	8.84	3.60	10.946	1.800	1.303
ARITH. MEAN :	52.6	217.19	37.49	21.61	12.11	31.796	4.184	2.667
ARITH. STD. DEV. :	23.2	109.90	19.17	12.10	6.83	14.807	2.491	1.572
GEOM. MEAN :	48.7	192.92	32.78	18.76	10.41	28.387	3.589	2.311
1ST QUARTILE :	38.0	133.20	22.80	12.18	8.25	20.520	2.345	1.620
2ND QUARTILE :	45.0	197.60	33.28	15.75	10.53	28.160	3.150	1.885
3RD QUARTILE :	64.0	220.80	48.10	25.30	16.64	43.320	4.675	3.158
VOL. WGT. MEAN :	.	217.19	37.49	21.61	12.11	31.796	4.184	2.667
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	15.600	56.880	2.580	430.10	46.92	600.00	6647.00	270.00
MINIMUM :	1.125	5.641	0.090	13.32	0.00	198.00	494.00	15.12
ARITH. MEAN :	5.526	28.282	0.787	186.57	5.95	346.77	2078.34	80.68
ARITH. STD. DEV. :	4.109	15.614	0.751	119.29	12.72	128.66	1896.81	68.96
GEOM. MEAN :	4.136	23.597	0.516	140.28	2.48	325.23	1509.22	59.50
1ST QUARTILE :	2.475	16.047	0.260	116.00	0.00	261.02	884.00	36.85
2ND QUARTILE :	3.780	26.112	0.493	159.95	0.00	299.00	1245.00	54.82
3RD QUARTILE :	7.680	38.380	0.743	214.50	5.40	462.40	1906.48	91.00
VOL. WGT. MEAN :	5.525	28.282	0.787	180.12	19.41	303.67	1812.37	77.90
MISSING VALUES :	0	0	0	1	1	4	5	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	17.92	2737.00	88.80	4.17	14.07	9672.00	7456.05
MINIMUM :	0.36	286.28	3.96	0.00	0.00	2056.66	1028.43
ARITH. MEAN :	10.23	880.56	49.82	1.60	5.05	5021.74	3683.94
ARITH. STD. DEV. :	5.20	622.30	24.05	1.68	5.04	2387.93	2054.20
GEOM. MEAN :	7.62	736.72	39.79	1.76	3.37	4478.62	3086.61
1ST QUARTILE :	4.64	456.00	41.80	0.00	0.00	3016.80	2026.93
2ND QUARTILE :	11.69	662.50	46.20	1.02	5.43	5096.00	3490.71
3RD QUARTILE :	13.65	1068.00	68.58	2.95	6.65	6163.20	4596.19
VOL. WGT. MEAN :	9.87	850.15	47.59	3.85	9.48	5021.74	3683.94
MISSING VALUES :	1	1	3	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: SHALLOW LAKE MIC TYPE A SITE NO. 1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	120.0	275.50	66.95	98.88	92.70	179.550	29.355	16.150
MINIMUM :	17.0	75.65	0.78	3.90	0.78	5.780	0.780	0.780
ARITH. MEAN :	72.0	194.84	35.03	26.98	19.83	57.287	7.017	8.591
ARITH. STD. DEV. :	27.0	70.70	18.02	24.81	24.68	44.935	7.456	6.519
GEOM. MEAN :	65.4	178.40	24.28	19.27	10.21	41.608	4.725	5.083
1ST QUARTILE :	56.9	144.00	28.06	12.32	4.84	23.100	2.640	1.600
2ND QUARTILE :	74.0	232.80	38.40	21.12	12.54	62.080	4.750	13.115
3RD QUARTILE :	95.0	264.00	46.55	33.60	21.60	69.010	7.320	14.430
VOL. WGT. MEAN :	.	191.66	34.46	26.54	19.51	56.352	6.902	8.451
MISSING VALUES :	0	2	2	2	2	2	2	2

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	59.225	128.250	14.820	336.00	39.00	1420.80	11522.03	144.00
MINIMUM :	0.595	9.350	0.000	42.90	0.00	118.80	262.30	10.56
ARITH. MEAN :	13.558	44.045	2.580	166.99	8.32	521.05	3601.85	70.92
ARITH. STD. DEV. :	17.496	30.345	4.427	93.26	13.58	391.18	4307.78	45.04
GEOM. MEAN :	5.581	35.723	0.830	136.80	2.89	390.65	1409.91	55.45
1ST QUARTILE :	1.100	21.912	0.068	54.15	0.00	171.60	475.30	43.56
2ND QUARTILE :	7.920	42.456	0.484	162.80	0.00	544.15	1019.69	54.30
3RD QUARTILE :	13.800	52.380	4.529	223.10	5.77	579.50	7312.07	73.72
VOL. WGT. MEAN :	13.336	43.326	3.365	158.93	25.44	495.91	3502.47	67.49
MISSING VALUES :	2	2	2	5	5	5	7	5

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	14.65	2470.00	174.60	20.42	14.82	5400.00	3659.76
MINIMUM :	3.80	308.00	31.11	0.00	0.00	1394.00	46.53
ARITH. MEAN :	9.06	711.06	80.17	4.88	5.99	3734.84	1795.55
ARITH. STD. DEV. :	3.32	673.55	49.95	6.59	6.54	1209.55	1336.36
GEOM. MEAN :	8.35	551.75	66.24	2.87	3.35	3491.52	878.87
1ST QUARTILE :	4.88	366.60	32.12	0.00	0.00	2655.12	103.00
2ND QUARTILE :	9.96	476.85	66.40	2.31	2.86	4132.20	2047.79
3RD QUARTILE :	10.80	588.00	110.40	6.24	12.88	4646.40	2904.62
VOL. WGT. MEAN :	8.62	676.75	75.09	9.85	14.86	3673.88	1764.67
MISSING VALUES :	5	5	7	5	5	2	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: PALMERSTON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	91.0	204.75	51.87	24.57	16.38	41.860	3.640	1.820
MINIMUM :	33.0	204.75	51.87	24.57	16.38	41.860	3.640	1.820
ARITH. MEAN :	66.7	204.75	51.87	24.57	16.38	41.860	3.640	1.820
ARITH. STD. DEV. :	24.6	0.00	0.00	0.00	0.00	0.000	0.000	0.000
GEOM. MEAN :	61.1	204.75	51.87	24.57	16.38	41.860	3.640	1.820
1ST QUARTILE :	33.0	204.75	51.87	24.57	16.38	41.860	3.640	1.820
2ND QUARTILE :	76.0	204.75	51.87	24.57	16.38	41.860	3.640	1.820
3RD QUARTILE :	91.0	204.75	51.87	24.57	16.38	41.860	3.640	1.820
VOL. WGT. MEAN :	.	150.00	38.00	18.00	12.00	30.667	2.667	1.333
MISSING VALUES :	0	2	2	2	2	2	2	2

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	7.280	44.408	0.364	236.60	24.57	491.40	1092.00	59.15
MINIMUM :	7.280	44.408	0.364	236.60	24.57	491.40	1092.00	59.15
ARITH. MEAN :	7.280	44.408	0.364	236.60	24.57	491.40	1092.00	59.15
ARITH. STD. DEV. :	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00
GEOM. MEAN :	7.280	44.408	0.364	236.60	24.57	491.40	1092.00	59.15
1ST QUARTILE :	7.280	44.408	0.364	236.60	24.57	491.40	1092.00	59.15
2ND QUARTILE :	7.280	44.408	0.364	236.60	24.57	491.40	1092.00	59.15
3RD QUARTILE :	7.280	44.408	0.364	236.60	24.57	491.40	1092.00	59.15
VOL. WGT. MEAN :	5.333	32.533	0.267	173.33	18.00	360.00	800.00	43.33
MISSING VALUES :	2	2	2	2	2	2	2	2

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3
MAXIMUM :	10.92	591.50	21.84	0.00	12.74	6069.70	3304.01
MINIMUM :	10.92	591.50	21.84	0.00	12.74	6069.70	3304.01
ARITH. MEAN :	10.92	591.50	21.84	0.00	12.74	6069.70	3304.01
ARITH. STD. DEV. :	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GEOM. MEAN :	10.92	591.50	21.84	1.00	12.74	6069.70	3304.01
1ST QUARTILE :	10.92	591.50	21.84	0.00	12.74	6069.70	3304.01
2ND QUARTILE :	10.92	591.50	21.84	0.00	12.74	6069.70	3304.01
3RD QUARTILE :	10.92	591.50	21.84	0.00	12.74	6069.70	3304.01
VOL. WGT. MEAN :	8.00	433.33	16.00	0.00	9.33	4446.67	2420.52
MISSING VALUES :	2	2	2	2	2	2	2

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: GRAND BEND MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12	12
MAXIMUM :	145.0	366.30	83.25	103.94	36.35	95.040	26.368	5.940
MINIMUM :	17.9	62.65	16.47	11.10	5.19	11.814	1.701	0.716
ARITH. MEAN :	70.6	231.14	44.00	40.36	15.14	40.252	8.496	2.956
ARITH. STD. DEV. :	36.7	109.04	19.49	25.59	9.15	22.530	6.799	1.495
GEOM. MEAN :	60.7	201.41	39.47	33.38	12.64	34.653	6.492	2.530
1ST QUARTILE :	40.0	119.00	23.10	18.60	7.44	23.552	4.030	1.428
2ND QUARTILE :	59.6	211.05	42.43	32.61	13.23	33.555	6.153	2.950
3RD QUARTILE :	99.0	351.45	58.83	43.56	18.87	46.400	7.770	3.885
VOL. WGT. MEAN :	.	231.14	44.00	40.36	15.14	40.252	8.496	2.956
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12	12
MAXIMUM :	22.528	74.370	1.584	322.56	29.18	768.00	1998.50	216.00
MINIMUM :	1.260	11.528	0.107	60.39	0.00	122.40	292.00	7.17
ARITH. MEAN :	6.795	35.569	0.484	191.86	4.94	377.92	840.49	72.54
ARITH. STD. DEV. :	6.866	20.229	0.403	82.46	8.80	211.73	485.52	60.22
GEOM. MEAN :	4.225	29.951	0.359	171.54	2.28	321.18	730.02	49.28
1ST QUARTILE :	1.665	14.960	0.222	105.40	0.00	192.20	532.80	25.70
2ND QUARTILE :	3.248	29.434	0.362	189.64	0.00	317.00	696.95	53.05
3RD QUARTILE :	7.975	43.790	0.544	223.30	4.62	542.45	924.00	83.25
VOL. WGT. MEAN :	6.795	35.569	0.484	191.86	27.70	397.51	825.30	72.54
MISSING VALUES :	0	0	0	0	0	2	4	0

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	25.60	5049.00	84.00	7.77	14.85	9570.00	8002.94
MINIMUM :	3.85	204.80	17.00	0.00	0.00	829.44	7.93
ARITH. MEAN :	14.69	837.94	48.32	3.38	2.91	4784.60	3042.97
ARITH. STD. DEV. :	7.14	1282.26	22.75	3.18	4.65	2933.89	2423.56
GEOM. MEAN :	12.55	510.46	42.61	2.64	2.00	3683.78	1205.05
1ST QUARTILE :	6.12	245.53	27.28	0.00	0.00	1530.00	633.11
2ND QUARTILE :	14.90	492.40	43.04	3.62	0.00	4459.70	2865.87
3RD QUARTILE :	21.13	560.00	68.00	6.16	5.01	7215.00	4318.40
VOL. WGT. MEAN :	14.69	837.94	43.85	6.13	14.63	4784.60	3042.97
MISSING VALUES :	0	0	2	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: DORSET MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	133.0	386.25	60.76	30.59	27.44	60.000	4.655	3.990
MINIMUM :	32.0	57.60	8.32	3.36	1.60	5.600	0.480	0.480
ARITH. MEAN :	76.9	165.72	35.24	11.62	8.17	28.124	2.006	1.942
ARITH. STD. DEV. :	31.0	97.10	15.71	7.25	7.25	15.802	1.187	1.177
GEOM. MEAN :	70.1	140.27	30.91	9.66	5.82	22.873	1.649	1.568
1ST QUARTILE :	50.0	84.80	26.52	6.00	2.88	17.280	0.980	1.120
2ND QUARTILE :	78.0	126.00	35.28	10.14	5.64	27.000	1.950	1.470
3RD QUARTILE :	98.0	202.80	43.26	16.80	9.36	38.220	3.000	3.000
VOL. WGT. MEAN :	.	165.72	35.24	11.62	8.17	28.124	2.006	1.942
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	10.640	48.146	0.480	292.60	10.64	636.00	1014.00	192.00
MINIMUM :	0.000	7.936	0.000	33.12	0.00	13.44	245.00	12.16
ARITH. MEAN :	3.165	24.589	0.153	93.26	1.75	181.63	619.84	69.24
ARITH. STD. DEV. :	2.782	13.023	0.172	65.91	3.44	162.06	252.03	45.22
GEOM. MEAN :	2.300	21.004	0.473	77.61	1.57	117.10	562.88	55.10
1ST QUARTILE :	1.410	15.984	0.000	52.80	0.00	83.20	432.00	36.12
2ND QUARTILE :	2.100	24.252	0.096	75.00	0.00	130.20	594.02	63.36
3RD QUARTILE :	4.800	30.380	0.288	100.80	0.00	230.00	840.00	90.00
VOL. WGT. MEAN :	3.269	24.589	0.314	93.26	10.92	176.11	609.98	69.24
MISSING VALUES :	0	0	0	0	0	1	7	0

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	20.58	3960.00	195.00	7.20	10.78	9424.50	7125.86
MINIMUM :	0.96	86.40	10.56	0.00	0.00	1667.20	901.88
ARITH. MEAN :	7.47	703.31	64.22	1.06	2.79	5199.12	3480.89
ARITH. STD. DEV. :	5.32	996.85	58.43	2.49	4.30	2385.14	1760.84
GEOM. MEAN :	5.50	411.85	42.02	1.35	1.96	4564.91	2963.06
1ST QUARTILE :	4.80	288.40	12.78	0.00	0.00	3914.40	2559.69
2ND QUARTILE :	7.02	431.20	47.71	0.00	0.00	5098.80	3120.90
3RD QUARTILE :	7.56	489.60	65.17	0.00	6.00	7467.60	4690.57
VOL. WGT. MEAN :	7.47	703.31	57.11	4.95	9.16	5199.12	3480.89
MISSING VALUES :	0	0	5	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: CAMPBELLFORD MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	75.0	131.25	35.25	9.52	9.75	19.720	1.020	1.500
MINIMUM :	8.0	16.00	7.68	4.50	5.36	2.080	0.600	0.280
ARITH. MEAN :	50.3	84.22	24.28	6.19	7.30	11.017	0.790	0.820
ARITH. STD. DEV. :	30.1	49.38	11.94	2.35	1.83	7.203	0.174	0.508
GEOM. MEAN :	34.4	60.49	20.08	5.80	7.08	7.728	0.771	0.659
1ST QUARTILE :	8.0	16.00	7.68	4.50	5.36	2.080	0.600	0.280
2ND QUARTILE :	68.0	105.40	29.92	4.56	6.80	11.250	0.750	0.680
3RD QUARTILE :	75.0	131.25	35.25	9.52	9.75	19.720	1.020	1.500
VOL. WGT. MEAN :	.	84.22	24.28	6.19	7.30	11.017	0.790	0.820
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	4.500	15.504	0.000	95.20	13.50	190.40	1428.00	49.64
MINIMUM :	3.240	1.808	0.000	28.00	0.00	42.40	120.00	10.40
ARITH. MEAN :	3.713	9.321	0.000	53.82	5.78	116.40	774.00	30.02
ARITH. STD. DEV. :	0.560	5.670	0.000	29.56	5.68	74.00	654.00	19.62
GEOM. MEAN :	3.673	6.683	1.000	46.72	3.73	89.85	413.96	22.72
1ST QUARTILE :	3.240	1.808	0.000	28.00	0.00	42.40	120.00	10.40
2ND QUARTILE :	3.400	10.650	0.000	38.25	3.84	116.40	774.00	30.02
3RD QUARTILE :	4.500	15.504	0.000	95.20	13.50	190.40	1428.00	49.64
VOL. WGT. MEAN :	3.713	9.321	0.000	53.82	10.52	154.18	1025.21	39.76
MISSING VALUES :	0	0	0	0	0	1	1	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3
MAXIMUM :	18.00	435.00	.	0.00	11.25	5812.50	4121.56
MINIMUM :	2.80	160.00	.	0.00	2.32	662.40	410.29
ARITH. MEAN :	11.47	336.60	.	0.00	7.92	3563.63	2278.66
ARITH. STD. DEV. :	6.39	125.15	.	0.00	3.99	2152.53	1515.23
GEOM. MEAN :	8.82	306.77	.	1.00	6.43	2531.99	1573.57
1ST QUARTILE :	2.80	160.00	.	0.00	2.32	662.40	410.29
2ND QUARTILE :	13.60	414.80	.	0.00	10.20	4216.00	2304.14
3RD QUARTILE :	18.00	435.00	.	0.00	11.25	5812.50	4121.56
VOL. WGT. MEAN :	11.47	336.60	0.00	0.00	7.92	3563.63	2278.66
MISSING VALUES :	0	0	3	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: COLDWATER MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	143.0	357.50	67.21	43.12	16.72	216.000	6.160	27.900
MINIMUM :	34.0	45.00	12.00	2.64	2.48	4.500	0.330	0.000
ARITH. MEAN :	69.4	159.87	30.33	16.10	8.28	46.571	2.750	5.230
ARITH. STD. DEV. :	28.2	85.08	13.91	9.72	4.53	52.066	1.523	6.994
GEOM. MEAN :	64.3	137.66	27.61	13.27	7.05	30.499	2.230	3.080
1ST QUARTILE :	50.0	86.40	21.60	11.40	4.20	18.630	1.760	1.500
2ND QUARTILE :	62.0	148.35	31.00	14.40	7.59	35.520	2.750	3.430
3RD QUARTILE :	88.0	204.00	32.43	19.60	12.32	50.160	3.420	6.120
VOL. WGT. MEAN :	.	159.87	30.33	16.10	8.28	46.571	2.750	5.642
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	9.240	101.400	18.000	308.00	96.80	557.70	32653.53	328.90
MINIMUM :	0.720	6.000	0.000	27.60	0.00	27.90	589.60	18.24
ARITH. MEAN :	3.668	33.264	2.320	118.97	11.49	188.32	8954.36	58.48
ARITH. STD. DEV. :	2.626	25.969	4.603	72.60	25.49	132.43	12363.83	79.12
GEOM. MEAN :	2.830	24.516	0.946	99.22	3.27	151.05	2655.47	39.83
1ST QUARTILE :	1.650	14.688	0.429	61.20	0.00	117.60	828.00	27.28
2ND QUARTILE :	2.700	27.832	0.792	99.20	0.00	149.60	840.00	36.00
3RD QUARTILE :	4.840	47.988	1.936	162.00	9.24	158.70	9860.68	50.40
VOL. WGT. MEAN :	3.668	33.264	2.512	118.97	26.50	188.32	7396.37	58.48
MISSING VALUES :	0	0	0	0	0	0	8	0

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	50.05	11869.00	128.70	34.32	11.04	9066.20	5692.93
MINIMUM :	0.62	138.00	13.86	0.00	0.00	1435.20	23.89
ARITH. MEAN :	10.51	1454.98	41.16	3.05	3.14	3844.72	2131.43
ARITH. STD. DEV. :	11.92	3087.54	30.81	9.14	4.18	1923.59	1411.72
GEOM. MEAN :	6.77	507.36	33.82	1.49	2.21	3424.12	1316.07
1ST QUARTILE :	5.94	275.40	25.42	0.00	0.00	2386.80	1277.33
2ND QUARTILE :	8.16	369.60	36.61	0.00	0.00	3636.60	2128.88
3RD QUARTILE :	11.40	597.80	38.64	0.00	6.00	4596.20	2762.02
VOL. WGT. MEAN :	10.51	1454.98	38.12	11.89	10.54	3844.72	2131.43
MISSING VALUES :	0	0	3	0	0	0	0

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STATION: TORONTO ISLAND MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	140.1	497.36	84.06	37.83	31.33	96.669	9.165	6.045
MINIMUM :	17.9	71.52	13.26	6.50	5.66	8.046	1.182	0.447
ARITH. MEAN :	61.6	216.23	38.08	24.55	16.92	34.149	4.704	2.908
ARITH. STD. DEV. :	29.7	118.73	17.34	10.55	9.20	24.441	2.345	1.628
GEOM. MEAN :	54.8	184.91	34.23	21.47	14.46	26.647	4.042	2.397
1ST QUARTILE :	45.5	135.93	31.32	15.39	10.01	19.890	2.864	1.620
2ND QUARTILE :	59.1	176.25	37.26	25.03	11.75	26.730	4.310	2.825
3RD QUARTILE :	80.5	268.45	40.80	33.58	25.22	44.385	6.670	3.060
VOL. WGT. MEAN :	.	216.23	38.08	24.55	16.92	34.149	4.704	2.908
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	16.907	76.214	1.360	297.85	27.85	571.55	1790.10	448.32
MINIMUM :	1.639	6.874	0.000	65.01	0.00	184.76	357.60	44.16
ARITH. MEAN :	7.075	28.953	0.352	190.05	6.39	366.00	747.77	155.60
ARITH. STD. DEV. :	5.525	20.239	0.370	75.77	9.34	138.81	453.11	127.89
GEOM. MEAN :	5.135	22.606	0.443	171.16	2.84	339.54	644.39	114.84
1ST QUARTILE :	2.925	14.976	0.094	105.30	0.00	245.31	390.06	56.40
2ND QUARTILE :	3.400	25.116	0.242	196.77	0.00	334.75	624.45	98.35
3RD QUARTILE :	11.229	30.182	0.455	258.40	15.37	445.50	705.00	243.00
VOL. WGT. MEAN :	7.075	28.953	0.447	176.51	16.45	336.41	771.50	144.52
MISSING VALUES :	0	0	0	3	3	5	5	3

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	54.64	9666.90	196.14	13.77	7.68	11418.15	8638.50
MINIMUM :	5.06	327.80	79.90	0.00	0.00	815.10	15.17
ARITH. MEAN :	15.30	1638.15	118.30	2.07	2.99	5202.16	3714.76
ARITH. STD. DEV. :	13.71	2691.00	43.37	4.14	3.66	2651.54	2187.09
GEOM. MEAN :	11.99	896.14	111.14	1.67	2.23	4398.56	2350.13
1ST QUARTILE :	8.46	611.00	82.74	0.00	0.00	4420.00	2672.23
2ND QUARTILE :	10.64	718.60	88.55	0.00	0.00	4968.00	3484.16
3RD QUARTILE :	16.32	1020.00	162.00	3.19	7.36	6097.00	4963.59
VOL. WGT. MEAN :	14.21	1521.52	97.79	7.36	8.42	5202.16	3714.76
MISSING VALUES :	3	3	6	3	3	0	0

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STATION: SMITHS FALLS MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	112.0	358.40	56.23	29.12	14.72	53.000	5.112	2.650
MINIMUM :	19.0	19.95	13.85	3.04	2.84	4.560	0.475	0.285
ARITH. MEAN :	62.6	176.40	32.64	13.19	7.50	26.262	2.494	1.454
ARITH. STD. DEV. :	27.4	99.06	12.50	9.10	3.71	14.408	1.595	0.748
GEOM. MEAN :	56.2	140.40	30.20	10.16	6.66	21.662	1.931	1.227
1ST QUARTILE :	45.0	90.52	24.50	4.26	4.32	17.395	0.751	0.720
2ND QUARTILE :	53.0	157.50	31.88	11.13	6.84	22.760	2.385	1.315
3RD QUARTILE :	85.2	236.70	35.51	14.85	7.65	31.950	3.150	1.953
VOL. WGT. MEAN :	.	177.45	32.84	13.27	7.54	26.419	2.509	1.462
MISSING VALUES :	0	1	1	1	1	1	1	1

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	7.590	45.248	0.522	313.60	15.62	952.00	2024.00	291.20
MINIMUM :	0.000	2.660	0.000	38.16	0.00	78.10	297.19	46.15
ARITH. MEAN :	3.059	22.722	0.189	120.66	3.47	287.17	962.91	124.22
ARITH. STD. DEV. :	2.539	11.842	0.154	84.60	4.94	233.20	535.39	73.99
GEOM. MEAN :	2.284	18.357	0.321	96.70	2.29	224.54	814.32	105.11
1ST QUARTILE :	1.065	13.419	0.000	51.30	0.00	129.60	568.00	53.25
2ND QUARTILE :	1.763	22.359	0.182	91.80	0.00	239.15	765.00	96.60
3RD QUARTILE :	5.538	28.980	0.284	139.50	4.62	281.16	1302.60	162.00
VOL. WGT. MEAN :	3.620	22.857	0.247	121.37	14.00	288.88	987.02	117.53
MISSING VALUES :	1	1	1	1	1	1	4	2

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	27.14	1696.00	121.90	15.90	11.04	8289.20	6387.13
MINIMUM :	4.24	259.15	27.36	0.00	0.00	1620.70	1198.82
ARITH. MEAN :	12.11	925.52	79.75	3.35	2.89	4819.65	3477.19
ARITH. STD. DEV. :	7.37	443.49	33.87	4.71	3.95	1957.10	1512.72
GEOM. MEAN :	10.25	812.54	70.70	2.28	2.13	4378.62	3126.74
1ST QUARTILE :	6.27	552.00	38.64	0.00	0.00	3205.65	2237.88
2ND QUARTILE :	9.94	786.00	81.79	0.76	0.00	4874.00	3320.03
3RD QUARTILE :	14.48	1219.00	112.00	5.33	5.68	5355.00	4397.57
VOL. WGT. MEAN :	12.18	931.03	68.52	8.12	9.10	4848.31	3497.87
MISSING VALUES :	1	1	6	1	1	1	1

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STATION: GOLDEN LAKE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	65.0	84.50	24.84	5.85	6.48	27.300	0.975	1.080
MINIMUM :	4.0	3.20	2.04	0.48	0.56	0.360	0.080	0.060
ARITH. MEAN :	41.0	41.83	16.54	2.83	3.86	11.020	0.442	0.705
ARITH. STD. DEV. :	26.5	33.31	10.29	2.24	2.47	11.694	0.385	0.458
GEOM. MEAN :	24.1	21.70	10.49	1.82	2.55	3.758	0.276	0.398
1ST QUARTILE :	4.0	3.20	2.04	0.48	0.56	0.360	0.080	0.060
2ND QUARTILE :	54.0	37.80	22.75	2.16	4.55	5.400	0.270	0.975
3RD QUARTILE :	65.0	84.50	24.84	5.85	6.48	27.300	0.975	1.080
VOL. WGT. MEAN :	.	41.83	16.54	2.83	3.86	11.020	0.442	0.705
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	2.160	11.050	0.195	78.00	8.45	162.50	1188.00	50.70
MINIMUM :	0.380	0.336	0.000	6.80	0.00	12.80	44.00	32.40
ARITH. MEAN :	1.497	5.271	0.065	39.79	3.56	87.65	692.33	41.55
ARITH. STD. DEV. :	0.794	4.414	0.092	29.30	3.57	74.85	479.35	9.15
GEOM. MEAN :	1.170	2.543	0.580	26.37	2.67	45.61	353.49	40.53
1ST QUARTILE :	0.380	0.336	0.000	6.80	0.00	12.80	44.00	32.40
2ND QUARTILE :	1.950	4.428	0.000	34.56	2.24	87.65	845.00	41.55
3RD QUARTILE :	2.160	11.050	0.195	78.00	8.45	162.50	1188.00	50.70
VOL. WGT. MEAN :	1.497	5.271	0.123	39.79	6.35	104.16	692.33	28.63
MISSING VALUES :	0	0	0	0	0	1	0	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3
MAXIMUM :	10.40	598.00	.	0.00	14.30	3809.00	2053.02
MINIMUM :	0.92	22.80	.	0.00	0.00	230.40	159.24
ARITH. MEAN :	6.29	277.13	.	0.00	4.77	2370.67	1391.74
ARITH. STD. DEV. :	3.97	239.49	.	0.00	6.74	1542.97	872.29
GEOM. MEAN :	4.17	142.13	.	1.00	2.43	1391.87	862.56
1ST QUARTILE :	0.92	22.80	.	0.00	0.00	230.40	159.24
2ND QUARTILE :	7.56	210.60	.	0.00	0.00	3072.60	1962.97
3RD QUARTILE :	10.40	598.00	.	0.00	14.30	3809.00	2053.02
VOL. WGT. MEAN :	6.29	277.13	0.00	0.00	9.02	2370.67	1391.74
MISSING VALUES :	0	0	3	0	0	0	0

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: PT. PETRE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	98.0	348.00	66.33	38.19	18.56	118.320	7.035	57.285
MINIMUM :	2.4	7.68	2.88	0.86	0.86	0.912	0.144	0.000
ARITH. MEAN :	53.2	176.31	33.84	14.23	9.41	35.248	2.579	6.659
ARITH. STD. DEV. :	24.8	91.66	17.98	9.20	5.57	31.976	1.727	14.909
GEOM. MEAN :	41.6	137.45	26.72	10.61	7.18	21.748	1.912	1.851
1ST QUARTILE :	41.7	131.36	18.78	10.56	5.12	14.700	1.470	0.850
2ND QUARTILE :	56.9	151.90	34.98	13.16	9.90	23.100	2.115	1.877
3RD QUARTILE :	66.0	264.00	49.50	16.82	15.12	39.420	3.753	2.520
VOL. WGT. MEAN :	.	176.31	33.84	14.23	9.41	35.248	2.579	7.759
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	8.700	91.640	9.112	355.10	14.23	446.60	6890.59	323.40
MINIMUM :	0.588	0.446	0.000	22.68	0.00	91.04	272.00	40.80
ARITH. MEAN :	3.715	27.953	1.655	122.68	1.45	266.95	1545.09	106.70
ARITH. STD. DEV. :	2.517	26.377	3.014	80.93	3.95	122.76	1889.63	71.57
GEOM. MEAN :	2.827	16.460	0.625	100.83	1.38	233.53	966.38	91.11
1ST QUARTILE :	1.980	10.574	0.031	73.97	0.00	127.40	540.00	57.82
2ND QUARTILE :	2.845	19.800	0.198	99.00	0.00	290.40	827.20	98.85
3RD QUARTILE :	6.030	32.076	0.918	140.40	0.00	402.00	1504.00	104.40
VOL. WGT. MEAN :	3.715	27.953	2.432	113.64	12.55	258.16	1436.80	98.84
MISSING VALUES :	0	0	0	1	1	2	3	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	23.76	2520.00	57.62	134.00	11.88	7744.80	6085.26
MINIMUM :	2.55	221.91	13.50	0.00	0.00	345.60	281.98
ARITH. MEAN :	11.59	1108.53	37.14	15.40	1.74	4545.48	3098.54
ARITH. STD. DEV. :	5.82	579.85	15.78	35.99	3.64	1971.34	1546.72
GEOM. MEAN :	10.02	957.97	33.00	4.48	1.52	3761.36	2540.08
1ST QUARTILE :	6.58	697.00	20.16	0.00	0.00	4036.56	1932.30
2ND QUARTILE :	10.58	921.00	40.26	5.13	0.00	4700.00	3179.76
3RD QUARTILE :	14.52	1206.00	51.04	8.40	0.00	6032.00	3901.45
VOL. WGT. MEAN :	10.74	1026.83	32.72	23.35	8.88	4545.48	3098.54
MISSING VALUES :	1	1	7	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: KILLARNEY MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	117.0	319.00	77.00	37.82	109.74	174.440	8.370	37.510
MINIMUM :	15.0	49.50	5.40	4.95	1.80	3.900	0.750	1.350
ARITH. MEAN :	74.8	199.47	31.99	18.06	24.99	67.970	3.505	13.138
ARITH. STD. DEV. :	33.4	81.12	19.74	10.18	33.54	48.453	2.155	12.265
GEOM. MEAN :	64.8	178.14	25.91	15.17	12.21	48.074	2.852	7.436
1ST QUARTILE :	53.0	145.20	18.55	9.36	7.42	34.650	1.650	3.300
2ND QUARTILE :	66.0	197.20	23.91	14.53	9.60	58.300	3.170	7.175
3RD QUARTILE :	110.0	270.25	46.00	26.45	16.50	106.020	4.600	26.070
VOL. WGT. MEAN :	.	205.85	33.01	18.64	25.79	67.970	3.617	13.558
MISSING VALUES :	0	1	1	1	1	0	1	1

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	66.650	101.230	8.374	310.50	68.20	6510.00	8587.19	107.64
MINIMUM :	0.675	6.900	0.075	0.00	0.00	14.04	659.80	19.50
ARITH. MEAN :	17.466	38.543	1.689	146.65	13.96	1395.11	2592.83	62.29
ARITH. STD. DEV. :	22.725	24.690	2.208	107.76	21.25	2183.48	3010.02	31.99
GEOM. MEAN :	7.194	31.369	0.871	73.48	5.78	319.02	1595.07	52.61
1ST QUARTILE :	2.915	20.520	0.330	51.00	0.00	67.50	1007.00	24.84
2ND QUARTILE :	5.088	34.056	1.400	113.15	4.99	237.35	1192.16	65.15
3RD QUARTILE :	22.815	47.000	1.815	240.00	12.87	680.00	1518.00	85.80
VOL. WGT. MEAN :	18.024	39.776	1.689	177.33	21.98	1521.01	3040.61	67.92
MISSING VALUES :	1	1	0	3	3	3	6	3

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	10209.92	850.00	347.20	187.20	109.98	10329.00	7968.80
MINIMUM :	0.45	96.00	25.38	0.00	0.00	921.00	4.31
ARITH. MEAN :	1339.05	451.48	121.45	33.21	23.05	4745.95	2562.25
ARITH. STD. DEV. :	3356.17	247.83	104.16	61.44	34.37	2867.86	2375.41
GEOM. MEAN :	20.08	371.21	85.27	5.51	8.01	3732.98	890.27
1ST QUARTILE :	1.86	178.20	36.30	0.00	0.00	1775.40	257.77
2ND QUARTILE :	10.10	406.20	83.75	2.76	9.97	5038.20	1772.20
3RD QUARTILE :	13.80	502.20	121.90	11.00	21.70	6796.50	4372.18
VOL. WGT. MEAN :	1459.90	492.22	132.41	57.29	31.21	4745.95	2562.25
MISSING VALUES :	3	3	3	3	3	0	0

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STATION: MATTAWA MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	135.0	283.50	45.90	103.95	36.00	47.880	26.325	16.875
MINIMUM :	18.0	52.00	8.82	3.25	2.52	0.000	0.975	1.575
ARITH. MEAN :	73.3	167.48	23.31	18.53	8.97	25.999	4.213	5.289
ARITH. STD. DEV. :	26.5	71.82	10.24	28.67	10.25	12.763	7.397	5.137
GEOM. MEAN :	67.2	148.70	21.04	10.62	5.90	19.853	2.158	3.665
1ST QUARTILE :	63.0	108.75	16.38	7.50	3.95	20.150	1.200	1.975
2ND QUARTILE :	75.0	168.20	22.64	8.97	4.68	25.280	1.850	2.805
3RD QUARTILE :	80.0	216.60	28.50	12.64	5.46	33.750	2.560	5.700
VOL. WGT. MEAN :	.	164.50	22.89	18.20	8.81	28.090	4.138	5.195
MISSING VALUES :	0	1	1	1	1	0	1	1

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	38.850	36.784	3.344	1890.00	29.70	904.50	3150.00	126.40
MINIMUM :	0.000	8.970	0.000	23.66	0.00	14.08	401.29	28.00
ARITH. MEAN :	5.789	21.742	0.818	299.22	5.04	303.92	1331.14	61.96
ARITH. STD. DEV. :	11.134	7.857	0.937	533.46	9.92	259.89	1286.24	30.08
GEOM. MEAN :	2.489	20.121	0.607	137.42	2.01	193.23	823.70	55.49
1ST QUARTILE :	1.350	16.704	0.237	88.00	0.00	158.00	401.29	45.00
2ND QUARTILE :	1.590	22.685	0.320	131.05	0.00	212.80	442.12	46.39
3RD QUARTILE :	3.185	25.662	0.945	180.00	1.98	390.00	3150.00	76.80
VOL. WGT. MEAN :	6.210	21.355	0.884	293.89	16.21	305.99	1367.33	60.86
MISSING VALUES :	1	1	0	1	1	2	8	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	144.16	709.80	185.60	13.50	16.72	6032.00	4296.25
MINIMUM :	1.28	216.00	17.29	0.00	0.00	1092.60	609.92
ARITH. MEAN :	19.22	334.06	91.88	3.16	7.86	4104.18	2247.21
ARITH. STD. DEV. :	41.74	145.55	45.07	4.46	7.33	1635.06	1221.65
GEOM. MEAN :	6.24	310.75	78.14	2.20	4.43	3658.92	1853.39
1ST QUARTILE :	3.15	240.50	77.60	0.00	0.00	2812.50	856.87
2ND QUARTILE :	6.14	267.95	83.60	0.00	7.05	4663.35	2515.41
3RD QUARTILE :	8.80	378.00	103.95	5.53	16.50	5459.20	3096.09
VOL. WGT. MEAN :	18.88	328.12	88.98	6.56	14.70	4031.16	2207.23
MISSING VALUES :	1	1	2	1	1	1	1

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STATION: GOWGANDA MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	111.0	277.50	41.07	49.95	119.88	30.940	8.880	41.070
MINIMUM :	12.0	28.80	2.88	1.08	1.08	3.840	0.180	0.360
ARITH. MEAN :	54.6	85.37	13.40	10.28	18.78	15.426	2.141	6.950
ARITH. STD. DEV. :	29.8	77.46	11.40	15.25	38.33	8.249	2.704	12.970
GEOM. MEAN :	46.2	63.64	9.88	5.10	5.19	12.933	1.091	2.309
1ST QUARTILE :	34.0	28.90	4.76	2.34	1.72	7.410	0.390	0.585
2ND QUARTILE :	42.0	59.63	10.38	3.82	3.72	14.400	1.260	1.883
3RD QUARTILE :	86.0	71.40	14.43	9.00	7.20	19.740	1.500	3.000
VOL. WGT. MEAN :	.	96.67	15.17	11.64	21.26	21.453	2.425	7.870
MISSING VALUES :	0	3	3	3	3	4	3	3

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	94.905	60.162	7.056	130.20	9.00	165.00	2648.83	45.75
MINIMUM :	0.540	2.688	0.060	0.00	0.00	96.17	390.00	11.10
ARITH. MEAN :	13.401	15.941	1.487	58.51	2.02	127.39	1519.42	24.77
ARITH. STD. DEV. :	30.836	17.701	2.207	50.70	3.32	25.70	1129.42	13.11
GEOM. MEAN :	2.320	10.000	0.523	25.05	1.74	124.84	1016.39	21.47
1ST QUARTILE :	0.900	3.698	0.117	14.40	0.00	96.17	390.00	13.26
2ND QUARTILE :	1.230	10.188	0.539	50.72	0.00	124.20	1519.42	20.16
3RD QUARTILE :	2.250	12.096	1.326	105.00	3.12	135.00	2648.83	33.60
VOL. WGT. MEAN :	15.174	18.051	1.684	96.86	7.61	175.10	1581.25	34.18
MISSING VALUES :	3	3	3	5	5	7	9	6

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	14.43	412.50	50.40	5.25	8.40	3474.30	1566.97
MINIMUM :	1.32	48.00	13.65	0.00	0.00	734.40	66.29
ARITH. MEAN :	5.25	195.35	37.01	1.37	2.12	1954.93	858.45
ARITH. STD. DEV. :	4.86	116.64	14.08	2.04	3.22	890.14	537.63
GEOM. MEAN :	3.57	160.00	33.15	1.58	1.82	1728.62	588.16
1ST QUARTILE :	2.10	126.00	13.65	0.00	0.00	823.20	171.92
2ND QUARTILE :	2.40	160.20	42.00	0.00	0.00	1995.90	801.34
3RD QUARTILE :	6.00	265.20	45.00	2.94	4.29	2220.00	1291.41
VOL. WGT. MEAN :	7.24	207.25	43.49	3.82	10.05	2213.68	972.08
MISSING VALUES :	6	5	7	5	5	3	3

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: MOONBEAM MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10	10
MAXIMUM :	145.0	303.43	29.77	146.56	258.77	515.250	28.053	65.837
MINIMUM :	20.0	0.00	4.80	1.50	2.00	4.200	0.300	0.750
ARITH. MEAN :	69.0	111.08	14.92	23.82	31.89	68.281	4.575	11.040
ARITH. STD. DEV. :	37.4	81.67	8.16	43.65	80.23	149.434	8.344	19.630
GEOM. MEAN :	58.6	62.64	12.55	9.53	5.29	20.806	1.855	3.958
1ST QUARTILE :	32.0	65.00	6.60	4.50	2.40	7.200	0.900	1.440
2ND QUARTILE :	63.5	112.50	14.40	9.10	3.25	16.445	1.860	3.575
3RD QUARTILE :	90.0	136.40	18.02	14.50	4.34	37.700	2.900	8.370
VOL. WGT. MEAN :	.	118.53	15.14	24.17	32.36	68.281	4.643	11.204
MISSING VALUES :	0	1	1	1	1	0	1	1

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10	10
MAXIMUM :	168.315	99.844	4.402	549.60	89.31	10305.00	8683.47	159.00
MINIMUM :	0.900	4.200	0.000	9.92	0.00	45.00	360.00	4.55
ARITH. MEAN :	20.490	26.446	1.458	136.65	11.84	1525.68	2285.71	49.97
ARITH. STD. DEV. :	52.276	28.051	1.545	157.22	27.55	3332.98	3225.59	46.52
GEOM. MEAN :	2.856	16.400	0.871	72.14	2.87	259.79	986.09	32.79
1ST QUARTILE :	1.200	5.920	0.288	36.00	0.00	70.00	405.74	28.00
2ND QUARTILE :	1.300	20.340	0.646	77.40	0.00	160.00	495.34	33.00
3RD QUARTILE :	3.625	31.744	2.430	169.60	5.83	319.00	1484.00	40.60
VOL. WGT. MEAN :	20.793	26.837	1.525	138.67	33.77	1531.51	2300.73	50.71
MISSING VALUES :	1	1	0	1	1	2	5	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10
MAXIMUM :	173.90	1060.00	1603.00	171.75	20.61	3654.00	1593.65
MINIMUM :	0.30	57.60	15.50	0.00	0.00	726.00	13.77
ARITH. MEAN :	22.60	412.89	549.38	26.74	4.70	2459.21	923.19
ARITH. STD. DEV. :	53.72	380.06	722.24	55.59	6.78	1008.91	595.80
GEOM. MEAN :	2.91	243.43	116.93	2.84	2.58	2161.03	523.53
1ST QUARTILE :	0.64	84.50	21.75	0.00	0.00	1594.00	193.70
2ND QUARTILE :	2.60	170.00	59.50	0.00	0.00	2891.13	1266.60
3RD QUARTILE :	3.25	806.00	1537.00	0.00	8.48	3166.80	1387.06
VOL. WGT. MEAN :	22.93	419.00	469.09	99.06	11.55	2459.21	923.19
MISSING VALUES :	1	1	4	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: TURKEY LAKES MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	207.0	465.75	73.92	89.01	146.97	341.550	32.085	36.225
MINIMUM :	39.0	97.20	16.20	8.45	3.15	20.020	1.620	1.350
ARITH. MEAN :	102.0	216.22	42.38	27.86	25.18	95.455	7.228	8.319
ARITH. STD. DEV. :	51.1	113.55	19.08	25.55	43.21	117.983	9.327	11.135
GEOM. MEAN :	90.0	190.99	37.63	19.63	10.09	53.997	4.139	4.229
1ST QUARTILE :	65.0	128.70	23.40	9.00	4.86	27.450	2.145	2.275
2ND QUARTILE :	91.0	170.63	44.21	14.95	6.31	38.870	3.115	2.580
3RD QUARTILE :	153.0	291.20	53.20	30.94	10.45	74.100	5.225	8.075
VOL. WGT. MEAN :	.	227.59	44.61	29.33	26.50	100.479	7.608	8.756
MISSING VALUES :	0	1	1	1	1	1	1	1

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11	11
MAXIMUM :	112.815	152.766	10.248	786.60	155.25	11799.00	855.00	282.50
MINIMUM :	0.910	24.030	0.130	10.53	0.00	65.00	412.05	18.63
ARITH. MEAN :	18.663	56.282	2.562	282.32	18.89	1772.71	633.52	95.37
ARITH. STD. DEV. :	34.700	43.112	3.602	253.33	46.55	3512.71	221.48	78.47
GEOM. MEAN :	4.449	45.455	0.831	169.52	2.35	430.86	593.55	69.48
1ST QUARTILE :	1.215	28.512	0.325	113.00	0.00	153.00	412.05	35.75
2ND QUARTILE :	2.828	37.156	0.428	144.40	0.00	322.00	633.52	66.51
3RD QUARTILE :	5.650	52.052	4.761	503.50	0.00	452.00	855.00	161.46
VOL. WGT. MEAN :	19.645	59.244	2.697	297.18	51.37	1866.01	807.74	100.39
MISSING VALUES :	1	1	1	1	1	1	9	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	307.90	9040.00	869.40	128.34	28.56	5943.80	3828.94
MINIMUM :	1.30	89.10	15.30	0.00	0.00	2438.10	168.00
ARITH. MEAN :	40.25	1261.26	199.06	16.70	3.77	4371.61	2072.71
ARITH. STD. DEV. :	89.61	2609.69	286.86	38.96	8.70	1254.93	1317.44
GEOM. MEAN :	9.71	421.91	79.41	2.34	1.74	4170.05	1361.35
1ST QUARTILE :	3.64	234.00	22.68	0.00	0.00	3295.50	614.45
2ND QUARTILE :	7.68	328.90	74.10	0.00	0.00	4529.15	2172.74
3RD QUARTILE :	22.77	520.80	285.60	0.00	0.00	5382.00	3257.72
VOL. WGT. MEAN :	42.37	1327.64	191.03	45.42	16.49	4601.69	2181.80
MISSING VALUES :	1	1	4	1	1	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: MCFARLANE LAKE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10	10
MAXIMUM :	128.0	291.60	62.72	15.00	24.50	49.000	2.700	3.240
MINIMUM :	15.0	42.00	4.80	2.67	1.05	3.900	0.445	0.750
ARITH. MEAN :	73.7	192.09	27.26	8.43	7.80	26.995	1.609	1.850
ARITH. STD. DEV. :	35.6	83.60	18.44	4.72	6.80	14.069	0.831	0.864
GEOM. MEAN :	62.1	166.21	20.05	7.02	5.25	21.843	1.359	1.621
1ST QUARTILE :	41.0	96.35	9.52	4.20	2.67	16.020	0.900	0.890
2ND QUARTILE :	83.0	236.68	27.40	6.53	5.97	30.915	1.410	2.155
3RD QUARTILE :	100.0	256.00	36.72	14.04	12.19	34.560	2.500	2.500
VOL. WGT. MEAN :	.	192.09	27.26	8.43	7.80	26.995	1.609	1.850
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10	10
MAXIMUM :	11.270	44.100	0.420	192.00	100.00	716.80	3604.00	960.00
MINIMUM :	0.000	4.830	0.000	27.00	0.00	82.00	278.80	7.12
ARITH. MEAN :	3.619	22.446	0.155	93.81	25.74	331.64	2364.65	337.86
ARITH. STD. DEV. :	3.914	12.843	0.142	56.98	29.78	199.02	1333.27	348.14
GEOM. MEAN :	2.286	17.822	0.297	76.66	11.49	272.60	1705.33	153.28
1ST QUARTILE :	0.450	8.400	0.000	45.00	5.25	184.80	1312.44	57.40
2ND QUARTILE :	1.713	23.545	0.159	75.40	16.52	280.00	3100.00	164.80
3RD QUARTILE :	6.360	33.600	0.265	160.00	28.16	499.80	3528.00	560.00
VOL. WGT. MEAN :	4.393	22.446	0.273	93.81	35.12	291.97	2361.44	337.86
MISSING VALUES :	0	0	0	0	0	3	5	0

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10
MAXIMUM :	92.27	3132.00	8200.00	80.00	180.00	7761.60	5300.00
MINIMUM :	1.08	94.50	45.39	0.00	0.00	810.00	532.22
ARITH. MEAN :	16.65	702.91	2165.35	25.61	66.73	5403.47	3567.15
ARITH. STD. DEV. :	26.46	886.32	2891.13	29.06	62.03	2440.57	1665.99
GEOM. MEAN :	6.96	386.47	773.84	10.28	24.08	4520.28	2970.33
1ST QUARTILE :	4.45	168.10	250.10	1.95	4.05	2751.10	1937.13
2ND QUARTILE :	6.08	415.20	942.90	14.63	47.53	6752.00	4256.02
3RD QUARTILE :	12.72	646.80	1960.00	33.60	126.00	7449.60	5143.11
VOL. WGT. MEAN :	16.65	702.91	2165.35	32.10	91.07	5403.47	3567.15
MISSING VALUES :	0	0	0	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: HANMER-2 MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10	10
MAXIMUM :	125.0	402.22	40.79	78.18	70.25	149.556	9.064	27.759
MINIMUM :	31.0	86.95	12.09	3.41	3.10	11.160	0.620	0.775
ARITH. MEAN :	70.7	211.30	28.81	18.69	13.76	40.635	2.742	7.618
ARITH. STD. DEV. :	31.3	95.36	8.86	21.48	19.11	39.046	2.440	9.046
GEOM. MEAN :	63.9	190.08	27.13	11.69	8.44	30.161	1.930	3.628
1ST QUARTILE :	42.0	137.35	19.61	4.69	4.77	17.940	0.840	1.470
2ND QUARTILE :	63.0	195.68	32.68	11.16	7.86	25.160	1.875	2.270
3RD QUARTILE :	102.0	256.25	35.70	17.50	12.48	37.500	3.900	15.990
VOL. WGT. MEAN :	.	211.30	28.81	18.69	13.76	40.635	2.742	7.618
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10	10
MAXIMUM :	43.054	72.965	6.844	741.00	74.78	4078.80	3876.00	331.80
MINIMUM :	0.925	9.796	0.000	19.38	0.00	226.80	281.20	27.38
ARITH. MEAN :	6.799	33.927	1.421	251.50	19.25	1210.02	1575.73	203.72
ARITH. STD. DEV. :	12.163	20.603	2.173	251.83	21.59	1451.87	1397.15	108.42
GEOM. MEAN :	3.164	28.517	0.748	135.49	10.68	676.19	946.21	161.32
1ST QUARTILE :	1.325	20.770	0.126	54.60	5.92	314.90	312.70	120.90
2ND QUARTILE :	2.928	24.924	0.352	99.90	11.34	554.60	1018.25	254.60
3RD QUARTILE :	4.080	48.380	1.431	419.21	25.00	875.00	2948.00	300.00
VOL. WGT. MEAN :	6.799	33.927	1.572	244.68	22.19	1053.22	1465.50	198.20
MISSING VALUES :	0	0	0	1	1	5	4	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	10	10	10	10	10	10	10
MAXIMUM :	12.46	2754.00	1812.80	226.60	264.60	7729.00	5021.71
MINIMUM :	1.48	176.70	133.20	0.00	0.00	1838.90	252.40
ARITH. MEAN :	6.70	984.68	973.18	35.75	68.42	4647.39	2793.93
ARITH. STD. DEV. :	3.52	859.06	630.33	68.23	77.45	1849.30	1622.78
GEOM. MEAN :	5.52	662.29	652.65	8.78	28.12	4252.78	2072.93
1ST QUARTILE :	4.65	323.40	142.80	0.00	13.95	2839.20	1042.80
2ND QUARTILE :	6.25	550.00	1281.50	20.58	60.00	4467.66	2814.69
3RD QUARTILE :	8.85	1472.90	1375.00	22.42	73.70	5712.00	4435.17
VOL. WGT. MEAN :	6.52	958.00	883.46	46.99	78.85	4647.39	2793.93
MISSING VALUES :	1	1	2	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: GARSON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	8	8	8	8	8	8	8	8
MAXIMUM :	128.0	556.80	59.34	101.12	260.50	448.000	21.120	71.040
MINIMUM :	33.0	79.20	11.97	3.15	2.64	10.560	0.630	1.260
ARITH. MEAN :	69.3	266.70	30.01	29.40	67.96	81.400	6.333	16.542
ARITH. STD. DEV. :	31.7	147.65	15.88	29.17	91.23	139.230	6.156	24.690
GEOM. MEAN :	62.8	226.39	25.79	19.07	17.88	35.955	3.987	5.514
1ST QUARTILE :	46.0	151.20	12.87	9.57	3.15	15.400	1.815	1.815
2ND QUARTILE :	56.5	236.15	29.03	17.83	11.42	33.570	4.493	3.228
3RD QUARTILE :	77.0	321.90	37.74	34.50	82.34	43.290	7.500	5.290
VOL. WGT. MEAN :	.	266.70	30.01	29.40	67.96	81.400	6.333	16.542
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	8	8	8	8	8	8	8	8
MAXIMUM :	164.200	123.200	17.325	495.00	135.00	900.00	9453.00	400.20
MINIMUM :	0.690	13.992	0.000	53.55	7.59	46.20	225.40	31.50
ARITH. MEAN :	48.606	45.660	4.154	254.51	49.21	464.01	2871.58	181.93
ARITH. STD. DEV. :	66.846	35.414	6.201	151.05	45.95	337.63	3197.48	157.95
GEOM. MEAN :	7.935	35.030	1.172	200.59	28.03	308.90	1392.77	111.90
1ST QUARTILE :	0.825	14.994	0.066	89.10	8.19	138.60	472.50	40.81
2ND QUARTILE :	5.923	34.408	0.726	216.20	28.86	299.70	1689.28	73.60
3RD QUARTILE :	52.900	40.626	2.392	400.20	92.00	847.00	3700.00	399.60
VOL. WGT. MEAN :	48.606	45.660	4.687	289.61	55.99	528.01	3418.74	207.02
MISSING VALUES :	0	0	0	1	1	1	2	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	8	8	8	8	8	8	8
MAXIMUM :	77.96	4846.56	3650.00	85.00	166.50	7570.20	5073.68
MINIMUM :	1.26	269.50	81.90	0.00	6.27	1636.80	92.57
ARITH. MEAN :	16.98	1631.78	1096.41	26.35	48.79	3984.10	1932.99
ARITH. STD. DEV. :	25.22	1873.73	1199.76	27.07	55.47	1855.41	1782.85
GEOM. MEAN :	7.16	824.77	536.32	12.72	25.11	3579.76	944.43
1ST QUARTILE :	1.38	277.20	161.70	4.14	6.93	2212.60	104.04
2ND QUARTILE :	9.99	552.00	770.00	26.18	24.38	3651.30	1084.35
3RD QUARTILE :	11.96	4300.00	1932.00	35.42	92.40	3855.60	2814.11
VOL. WGT. MEAN :	19.32	1856.82	1247.62	35.18	55.52	3984.10	1932.99
MISSING VALUES :	1	1	1	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: DORION MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	105.0	360.36	47.12	22.18	11.09	59.136	4.158	4.620
MINIMUM :	17.2	11.18	4.64	1.04	1.41	2.064	0.240	0.258
ARITH. MEAN :	54.7	81.66	15.82	7.40	3.16	17.134	1.264	1.427
ARITH. STD. DEV. :	30.1	90.15	10.50	6.29	2.58	14.388	1.113	1.215
GEOM. MEAN :	46.3	51.68	13.46	4.89	2.59	11.885	0.838	0.975
1ST QUARTILE :	25.1	36.16	9.62	2.24	1.76	5.760	0.260	0.452
2ND QUARTILE :	48.0	44.00	12.65	4.29	2.22	15.174	0.843	1.320
3RD QUARTILE :	84.3	88.52	16.24	10.44	2.90	18.130	1.740	2.018
VOL. WGT. MEAN :	.	81.66	15.82	7.40	3.16	17.134	1.264	1.427
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	5.082	55.625	0.470	212.52	7.01	609.84	1276.00	212.52
MINIMUM :	0.000	0.791	0.000	14.56	0.00	29.06	144.64	3.08
ARITH. MEAN :	1.430	14.828	0.126	99.70	0.82	138.66	582.27	51.87
ARITH. STD. DEV. :	1.250	14.243	0.156	68.40	2.02	168.06	409.58	70.94
GEOM. MEAN :	1.211	9.070	0.397	69.96	1.28	88.56	453.63	23.84
1ST QUARTILE :	0.753	4.775	0.000	17.76	0.00	52.80	255.37	7.28
2ND QUARTILE :	0.946	13.420	0.052	90.10	0.00	66.25	464.78	23.68
3RD QUARTILE :	1.740	15.142	0.296	139.20	0.00	115.26	554.82	32.55
VOL. WGT. MEAN :	1.622	14.828	0.254	94.31	12.11	132.82	555.97	49.07
MISSING VALUES :	0	0	0	1	1	3	5	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	117.15	674.52	89.63	7.39	12.94	9332.40	6247.01
MINIMUM :	0.50	48.00	4.40	0.00	0.00	574.20	89.62
ARITH. MEAN :	14.90	203.65	31.94	0.85	1.98	2583.57	1355.92
ARITH. STD. DEV. :	31.21	162.14	29.21	2.04	3.90	2217.22	1519.61
GEOM. MEAN :	4.87	157.47	20.51	1.25	1.63	1927.31	828.59
1ST QUARTILE :	2.22	92.87	8.51	0.00	0.00	1081.81	314.92
2ND QUARTILE :	4.13	150.53	16.86	0.00	0.00	1910.40	1059.66
3RD QUARTILE :	9.28	248.60	61.10	0.00	0.00	3033.40	1305.65
VOL. WGT. MEAN :	14.09	192.64	27.45	4.01	8.56	2583.57	1355.92
MISSING VALUES :	1	1	6	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: PICKLE LAKE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	64.3	41.80	15.43	6.98	6.43	6.265	1.343	0.643
MINIMUM :	3.9	6.83	1.29	0.90	0.74	0.780	0.254	0.098
ARITH. MEAN :	28.7	23.07	7.36	3.70	3.82	4.277	0.746	0.336
ARITH. STD. DEV. :	25.8	14.38	5.94	2.51	2.35	2.481	0.451	0.228
GEOM. MEAN :	15.5	18.04	4.74	2.72	2.74	3.047	0.603	0.256
1ST QUARTILE :	3.9	6.83	1.29	0.90	0.74	0.780	0.254	0.098
2ND QUARTILE :	17.9	20.59	5.37	3.22	4.30	5.787	0.643	0.269
3RD QUARTILE :	64.3	41.80	15.43	6.98	6.43	6.265	1.343	0.643
VOL. WGT. MEAN :	.	23.07	7.36	3.70	3.82	4.277	0.746	0.336
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	4.180	5.656	0.036	83.59	5.01	173.61	393.80	52.08
MINIMUM :	0.605	0.749	0.000	39.38	0.00	59.07	393.80	46.54
ARITH. MEAN :	2.788	3.635	0.012	61.49	2.51	116.34	393.80	49.31
ARITH. STD. DEV. :	1.563	2.095	0.017	22.11	2.51	57.27	0.00	2.77
GEOM. MEAN :	2.084	2.671	0.330	57.37	2.24	101.27	393.80	49.23
1ST QUARTILE :	0.605	0.749	0.000	39.38	0.00	59.07	393.80	46.54
2ND QUARTILE :	3.580	4.501	0.000	61.49	2.51	116.34	393.80	49.31
3RD QUARTILE :	4.180	5.656	0.036	83.59	5.01	173.61	393.80	52.08
VOL. WGT. MEAN :	2.788	3.635	0.057	42.93	8.04	81.24	631.40	34.43
MISSING VALUES :	0	0	0	1	1	1	2	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3
MAXIMUM :	2.57	482.25	6.62	5.14	11.57	2443.40	1578.38
MINIMUM :	2.33	96.66	6.62	0.00	5.01	198.51	30.40
ARITH. MEAN :	2.45	289.46	6.62	2.57	8.29	1023.24	569.67
ARITH. STD. DEV. :	0.12	192.80	0.00	2.57	3.28	1008.56	713.83
GEOM. MEAN :	2.45	215.90	6.62	2.27	7.62	592.03	168.80
1ST QUARTILE :	2.33	96.66	6.62	0.00	5.01	198.51	30.40
2ND QUARTILE :	2.45	289.46	6.62	2.57	8.29	427.81	100.25
3RD QUARTILE :	2.57	482.25	6.62	5.14	11.57	2443.40	1578.38
VOL. WGT. MEAN :	1.71	202.13	10.62	2.30	5.79	1023.24	569.67
MISSING VALUES :	1	1	2	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: QUETICO CENTRE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	22.0	26.40	8.80	2.20	2.42	9.900	0.268	0.209
MINIMUM :	13.4	8.36	4.56	1.05	1.74	1.672	0.209	0.000
ARITH. MEAN :	18.8	14.71	7.38	1.57	2.08	4.527	0.232	0.106
ARITH. STD. DEV. :	3.8	8.27	2.00	0.48	0.28	3.802	0.026	0.085
GEOM. MEAN :	18.3	12.74	7.06	1.50	2.07	3.216	0.231	0.284
1ST QUARTILE :	13.4	8.36	4.56	1.05	1.74	1.672	0.209	0.000
2ND QUARTILE :	20.9	9.38	8.78	1.47	2.09	2.010	0.220	0.110
3RD QUARTILE :	22.0	26.40	8.80	2.20	2.42	9.900	0.268	0.209
VOL. WGT. MEAN :	.	14.71	7.38	1.57	2.08	4.527	0.232	0.140
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3	3
MAXIMUM :	2.200	8.756	0.167	26.40	52.25	41.80	237.91	11.44
MINIMUM :	1.273	0.209	0.121	15.05	4.84	41.80	237.91	5.02
ARITH. MEAN :	1.645	3.230	0.140	20.72	28.55	41.80	237.91	8.23
ARITH. STD. DEV. :	0.400	3.913	0.020	5.68	23.71	0.00	0.00	3.21
GEOM. MEAN :	1.600	1.098	0.139	19.93	15.90	41.80	237.91	7.58
1ST QUARTILE :	1.273	0.209	0.121	15.05	4.84	41.80	237.91	5.02
2ND QUARTILE :	1.463	0.724	0.132	20.72	28.55	41.80	237.91	8.23
3RD QUARTILE :	2.200	8.756	0.167	26.40	52.25	41.80	237.91	11.44
VOL. WGT. MEAN :	1.645	3.230	0.140	18.13	24.97	35.66	202.95	7.20
MISSING VALUES :	0	0	0	1	1	2	2	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	3	3	3	3	3	3	3
MAXIMUM :	1.76	355.30	5.12	1.46	5.06	1028.28	660.92
MINIMUM :	0.21	286.00	5.12	0.00	0.00	621.76	182.99
ARITH. MEAN :	0.98	320.65	5.12	0.73	2.53	794.21	376.80
ARITH. STD. DEV. :	0.78	34.65	0.00	0.73	2.53	171.58	205.30
GEOM. MEAN :	0.61	318.77	5.12	1.21	2.25	776.61	326.01
1ST QUARTILE :	0.21	286.00	5.12	0.00	0.00	621.76	182.99
2ND QUARTILE :	0.98	320.65	5.12	0.73	2.53	732.60	286.49
3RD QUARTILE :	1.76	355.30	5.12	1.46	5.06	1028.28	660.92
VOL. WGT. MEAN :	0.86	280.54	4.60	1.31	4.32	794.21	376.80
MISSING VALUES :	1	1	2	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: E.L.A. MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	156.5	107.10	23.80	22.18	5.95	54.120	4.805	2.975
MINIMUM :	10.9	6.00	2.73	1.42	0.00	1.635	0.245	0.109
ARITH. MEAN :	57.8	55.97	12.62	9.26	2.46	21.805	1.697	1.526
ARITH. STD. DEV. :	38.5	31.40	4.84	7.21	1.42	13.348	1.406	1.017
GEOM. MEAN :	46.8	43.79	11.43	6.48	2.26	16.733	1.183	1.055
1ST QUARTILE :	31.0	26.95	9.80	2.95	1.47	11.025	0.615	0.589
2ND QUARTILE :	57.7	56.83	12.51	6.45	2.35	22.549	1.075	1.482
3RD QUARTILE :	62.1	80.78	15.53	12.69	2.94	26.605	2.020	2.348
VOL. WGT. MEAN :	.	56.07	12.65	9.28	3.18	21.842	1.700	1.528
MISSING VALUES :	0	1	1	1	1	1	1	1

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	5.082	33.082	1.432	304.92	6.99	242.19	2440.34	196.18
MINIMUM :	0.000	0.698	0.000	26.95	0.00	31.85	492.74	3.23
ARITH. MEAN :	1.993	13.906	0.338	131.79	1.19	92.83	1005.18	61.43
ARITH. STD. DEV. :	1.485	9.466	0.415	89.58	2.42	69.96	735.41	73.31
GEOM. MEAN :	1.709	9.161	0.355	102.62	1.42	72.65	820.22	28.05
1ST QUARTILE :	0.858	5.962	0.000	65.10	0.00	42.26	527.82	12.42
2ND QUARTILE :	1.656	11.805	0.211	94.35	0.00	57.36	616.99	26.61
3RD QUARTILE :	2.214	18.118	0.442	187.80	0.00	115.40	948.00	69.52
VOL. WGT. MEAN :	2.579	13.930	0.519	115.95	11.22	81.67	950.83	51.05
MISSING VALUES :	1	1	1	3	3	3	8	4

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	5.95	441.60	175.41	6.99	9.81	3662.10	957.58
MINIMUM :	1.96	43.61	10.06	0.00	0.00	369.51	15.90
ARITH. MEAN :	3.94	198.19	45.09	0.70	2.41	1797.83	565.61
ARITH. STD. DEV. :	1.42	112.35	58.88	2.10	3.28	989.70	330.87
GEOM. MEAN :	3.68	166.87	24.99	1.21	2.00	1495.64	359.15
1ST QUARTILE :	3.10	127.10	11.47	0.00	0.00	924.00	131.05
2ND QUARTILE :	3.41	162.31	21.31	0.00	0.00	1700.17	689.37
3RD QUARTILE :	5.69	245.00	30.97	0.00	4.66	2221.45	777.53
VOL. WGT. MEAN :	3.47	174.38	48.83	10.98	9.29	1800.90	566.58
MISSING VALUES :	3	3	7	3	3	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: GERALDTON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	83.6	151.88	27.35	13.95	8.26	30.550	2.600	7.500
MINIMUM :	8.2	8.37	2.98	1.12	0.93	1.860	0.186	0.186
ARITH. MEAN :	49.6	59.91	12.21	7.09	3.20	13.144	1.199	1.641
ARITH. STD. DEV. :	22.1	37.64	6.14	4.36	1.95	7.718	0.725	1.829
GEOM. MEAN :	42.6	46.04	10.60	5.50	2.65	10.477	0.922	1.040
1ST QUARTILE :	32.0	41.60	8.61	2.84	1.48	7.740	0.520	0.675
2ND QUARTILE :	52.0	56.25	12.96	7.80	3.23	13.376	1.500	1.120
3RD QUARTILE :	65.0	72.90	13.20	11.34	3.60	19.200	1.620	1.890
VOL. WGT. MEAN :	.	59.91	12.21	7.09	3.20	13.144	1.199	1.641
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	9.000	21.190	0.780	185.84	16.00	585.00	1015.81	222.75
MINIMUM :	0.520	0.000	0.000	9.49	0.00	24.18	310.50	5.20
ARITH. MEAN :	2.309	9.764	0.177	69.08	2.28	114.81	590.94	62.72
ARITH. STD. DEV. :	2.226	6.912	0.221	52.75	4.69	159.72	273.00	69.62
GEOM. MEAN :	1.692	6.621	0.500	48.24	1.69	68.28	528.01	32.23
1ST QUARTILE :	1.076	3.336	0.000	26.75	0.00	32.60	330.71	11.96
2ND QUARTILE :	1.440	10.534	0.081	60.80	0.00	70.52	554.31	27.36
3RD QUARTILE :	2.160	14.310	0.270	117.00	3.52	94.50	780.00	102.40
VOL. WGT. MEAN :	2.309	10.613	0.299	61.81	12.19	98.57	507.57	52.63
MISSING VALUES :	0	0	0	2	2	3	7	3

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	5.68	1702.80	37.20	12.90	8.45	4137.75	2879.41
MINIMUM :	1.30	19.76	8.10	0.00	0.00	311.60	35.72
ARITH. MEAN :	3.33	343.15	19.97	1.61	0.77	1976.35	958.43
ARITH. STD. DEV. :	1.42	445.06	11.33	3.83	2.43	1174.00	900.39
GEOM. MEAN :	3.01	200.58	16.82	1.46	1.21	1595.29	550.76
1ST QUARTILE :	2.16	149.50	8.32	0.00	0.00	1237.50	341.36
2ND QUARTILE :	3.20	168.00	16.59	0.00	0.00	1570.40	620.00
3RD QUARTILE :	4.85	337.50	33.02	0.00	0.00	3078.00	1225.04
VOL. WGT. MEAN :	2.98	307.06	16.25	7.87	6.45	1976.35	958.43
MISSING VALUES :	2	2	7	2	2	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

STATION: WOLF RIDGE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	167.0	501.00	41.76	28.86	8.24	92.700	4.912	7.725
MINIMUM :	9.2	13.80	6.75	1.47	1.25	3.956	0.230	0.230
ARITH. MEAN :	73.2	140.68	21.24	11.83	4.34	31.050	1.908	2.274
ARITH. STD. DEV. :	48.2	136.14	10.48	8.16	2.19	27.274	1.349	1.908
GEOM. MEAN :	54.0	89.21	18.48	8.64	3.72	20.759	1.386	1.542
1ST QUARTILE :	25.0	52.44	13.44	5.16	2.72	10.560	0.645	0.619
2ND QUARTILE :	61.4	98.00	18.06	10.03	4.30	20.748	1.530	2.040
3RD QUARTILE :	103.0	144.20	27.44	18.37	5.88	39.150	2.940	3.070
VOL. WGT. MEAN :	.	140.68	21.24	11.83	4.34	31.050	1.908	2.274
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	4.635	79.158	4.223	374.54	2.39	323.40	3654.00	469.80
MINIMUM :	0.375	2.392	0.000	19.32	0.00	39.99	379.70	6.50
ARITH. MEAN :	2.267	27.617	0.576	172.28	0.22	142.88	1351.59	83.44
ARITH. STD. DEV. :	1.130	23.864	1.092	115.45	0.69	81.57	1228.02	129.78
GEOM. MEAN :	1.903	18.076	0.404	121.30	1.08	118.15	922.69	35.99
1ST QUARTILE :	1.445	9.600	0.032	46.44	0.00	76.50	413.10	13.39
2ND QUARTILE :	2.175	18.650	0.228	156.60	0.00	144.63	745.13	24.51
3RD QUARTILE :	2.940	39.411	0.501	254.80	0.00	182.70	1566.00	112.20
VOL. WGT. MEAN :	2.267	27.617	0.803	151.98	19.03	117.80	1101.38	73.60
MISSING VALUES :	0	0	0	2	2	3	8	2

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	145.70	548.10	92.88	14.19	46.98	10203.70	5696.53
MINIMUM :	0.25	60.00	12.50	0.00	0.00	647.50	79.95
ARITH. MEAN :	19.93	239.58	49.98	1.95	11.91	3502.74	1815.60
ARITH. STD. DEV. :	40.36	144.90	28.56	4.22	14.28	2932.65	2084.27
GEOM. MEAN :	5.83	195.80	40.86	1.54	5.06	2470.89	823.65
1ST QUARTILE :	2.55	123.60	29.87	0.00	0.00	1615.08	494.07
2ND QUARTILE :	6.14	196.48	42.30	0.00	5.25	2636.20	781.00
3RD QUARTILE :	13.05	374.10	80.04	1.38	21.71	3547.50	2077.64
VOL. WGT. MEAN :	17.58	211.34	45.29	6.65	18.05	3502.74	1815.60
MISSING VALUES :	2	2	7	2	2	0	0

PART VI

SUMMARY STATISTICS OF PRECIPITATION DEPOSITION BY REGION

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

REGION: CE

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	55	55	55	55	55	55	55	55
MAXIMUM :	167.0	501.00	84.06	43.12	31.33	216.000	9.165	27.900
MINIMUM :	8.0	13.80	6.75	1.47	1.25	2.080	0.230	0.000
ARITH. MEAN :	69.2	165.91	30.84	15.49	9.31	33.667	2.730	2.965
ARITH. STD. DEV. :	35.7	113.61	15.81	10.39	7.67	33.105	2.006	3.900
GEOM. MEAN :	58.6	127.94	26.67	11.91	6.87	23.381	2.016	1.932
1ST QUARTILE :	46.0	83.30	18.06	6.50	4.20	11.250	1.020	1.120
2ND QUARTILE :	66.0	135.93	31.02	12.42	6.80	24.600	2.400	2.175
3RD QUARTILE :	88.0	236.90	38.00	22.19	11.34	43.500	3.632	3.340
VOL. WGT. MEAN :	.	165.91	30.84	15.49	9.31	33.667	2.730	3.017
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	55	55	55	55	55	55	55	55
MAXIMUM :	16.907	101.400	18.000	374.54	96.80	636.00	32653.53	469.80
MINIMUM :	0.000	1.808	0.000	19.32	0.00	13.44	120.00	6.50
ARITH. MEAN :	4.026	27.554	0.804	134.32	5.11	204.83	2414.58	85.60
ARITH. STD. DEV. :	3.760	21.472	2.463	91.98	14.51	152.50	6328.11	103.59
GEOM. MEAN :	2.865	20.100	0.550	103.71	2.08	150.81	849.30	51.48
1ST QUARTILE :	1.760	10.062	0.000	61.20	0.00	105.60	413.10	25.44
2ND QUARTILE :	2.925	22.654	0.228	103.05	0.00	158.70	697.50	50.40
3RD QUARTILE :	4.635	39.411	0.506	196.14	4.68	259.35	1088.00	90.00
VOL. WGT. MEAN :	4.060	27.554	1.162	128.04	20.05	190.15	2296.02	81.65
MISSING VALUES :	0	0	0	5	5	10	29	6

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	55	55	55	55	55	55	55
MAXIMUM :	145.70	11869.00	196.14	34.32	46.98	11418.15	8638.50
MINIMUM :	0.25	60.00	10.56	0.00	0.00	647.50	15.17
ARITH. MEAN :	12.81	961.69	66.24	1.91	5.23	4389.54	2758.02
ARITH. STD. DEV. :	21.54	2121.58	51.35	5.60	8.47	2602.08	2035.12
GEOM. MEAN :	7.07	423.74	48.54	1.46	2.75	3541.05	1652.85
1ST QUARTILE :	5.06	196.48	29.87	0.00	0.00	2237.50	988.89
2ND QUARTILE :	7.70	406.95	47.00	0.00	0.00	4309.00	2597.06
3RD QUARTILE :	11.44	611.00	88.55	0.00	8.16	5549.49	3909.26
VOL. WGT. MEAN :	12.21	916.76	58.05	7.73	12.29	4389.54	2758.02
MISSING VALUES :	5	5	24	5	5	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

REGION: NE

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	83	83	83	83	83	83	83	83
MAXIMUM :	207.0	556.80	77.00	146.56	260.50	515.250	32.085	71.040
MINIMUM :	12.0	0.00	2.88	1.08	1.05	0.000	0.180	0.360
ARITH. MEAN :	73.6	181.57	26.94	19.16	23.60	52.872	3.986	8.554
ARITH. STD. DEV. :	37.4	108.67	17.04	25.68	50.50	89.129	6.049	14.025
GEOM. MEAN :	63.6	141.89	21.37	11.22	7.87	28.052	2.183	3.608
1ST QUARTILE :	43.0	97.20	14.24	5.74	3.22	16.520	1.155	1.600
2ND QUARTILE :	66.0	151.55	23.40	10.51	6.15	28.650	2.210	2.530
3RD QUARTILE :	98.0	246.40	36.50	16.96	12.19	41.400	3.900	8.075
VOL. WGT. MEAN :	.	185.52	27.37	19.47	23.99	54.496	4.051	8.692
MISSING VALUES :	0	7	7	7	7	5	7	7

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	83	83	83	83	83	83	83	83
MAXIMUM :	168.315	152.766	17.325	1890.00	155.25	11799.00	13799.78	960.00
MINIMUM :	0.000	2.688	0.000	0.00	0.00	14.04	225.40	4.55
ARITH. MEAN :	15.875	32.579	1.630	194.01	17.78	1035.13	2428.54	133.40
ARITH. STD. DEV. :	36.357	28.840	2.982	270.21	32.17	2261.25	3087.73	182.64
GEOM. MEAN :	3.598	23.445	0.674	97.78	4.92	309.97	1243.28	71.31
1ST QUARTILE :	1.125	14.994	0.154	52.00	0.00	135.00	412.05	31.50
2ND QUARTILE :	2.696	24.906	0.390	112.15	3.68	241.50	1192.16	67.50
3RD QUARTILE :	5.650	36.784	1.521	212.50	17.64	680.00	3150.00	156.80
VOL. WGT. MEAN :	16.718	33.105	1.822	203.76	32.64	1028.99	2625.49	136.60
MISSING VALUES :	7	7	4	13	13	24	48	14

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	83	83	83	83	83	83	83
MAXIMUM :	10209.92	9040.00	8200.00	226.60	264.60	10329.00	7968.80
MINIMUM :	0.30	48.00	13.65	0.00	0.00	726.00	4.31
ARITH. MEAN :	178.50	752.99	730.74	21.08	28.29	4023.63	2166.69
ARITH. STD. DEV. :	1219.47	1326.57	1493.26	44.54	50.39	2146.86	1735.08
GEOM. MEAN :	7.14	386.30	190.22	4.35	6.74	3381.95	1225.65
1ST QUARTILE :	2.10	178.20	50.40	0.00	0.00	2438.10	764.66
2ND QUARTILE :	6.00	373.80	130.35	0.90	6.60	3590.30	1632.78
3RD QUARTILE :	12.00	709.80	869.40	21.25	26.65	5712.00	3437.00
VOL. WGT. MEAN :	182.78	765.09	717.20	38.85	50.12	4066.21	2189.62
MISSING VALUES :	14	13	23	13	13	5	5

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

REGION: NW

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	45	45	45	45	45	45	45	45
MAXIMUM :	156.5	360.36	47.12	22.18	11.09	59.136	4.805	7.500
MINIMUM :	3.9	6.00	1.29	0.90	0.00	0.780	0.186	0.000
ARITH. MEAN :	50.0	59.67	12.73	7.17	2.95	15.493	1.257	1.353
ARITH. STD. DEV. :	31.5	59.02	7.72	6.01	2.05	12.603	1.103	1.386
GEOM. MEAN :	39.8	40.39	10.69	4.85	2.48	10.479	0.848	0.852
1ST QUARTILE :	24.5	20.59	8.80	2.24	1.72	5.787	0.268	0.311
2ND QUARTILE :	48.0	44.33	11.74	4.63	2.45	14.058	0.887	0.904
3RD QUARTILE :	63.2	80.78	15.43	10.44	3.25	20.520	1.620	1.896
VOL. WGT. MEAN :	.	59.91	12.78	7.20	3.19	15.557	1.263	1.367
MISSING VALUES :	0	1	1	1	1	1	1	1

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	45	45	45	45	45	45	45	45
MAXIMUM :	9.000	55.625	1.432	304.92	52.25	609.84	2440.34	222.75
MINIMUM :	0.000	0.000	0.000	9.49	0.00	24.18	144.64	3.08
ARITH. MEAN :	1.951	11.526	0.192	92.93	2.94	113.26	660.07	54.79
ARITH. STD. DEV. :	1.697	10.698	0.280	73.95	8.83	135.83	507.80	68.20
GEOM. MEAN :	1.553	6.602	0.379	64.22	1.69	75.96	525.43	26.45
1ST QUARTILE :	0.858	3.336	0.000	27.04	0.00	42.26	330.71	11.34
2ND QUARTILE :	1.452	10.322	0.074	69.52	0.00	63.20	527.82	26.61
3RD QUARTILE :	2.200	15.142	0.289	131.17	2.86	115.26	780.00	56.76
VOL. WGT. MEAN :	2.200	11.853	0.335	82.42	20.26	97.83	602.47	47.08
MISSING VALUES :	1	1	1	8	8	12	24	10

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	45	45	45	45	45	45	45
MAXIMUM :	117.15	1702.80	175.41	12.90	12.94	9332.40	6247.01
MINIMUM :	0.21	19.76	4.40	0.00	0.00	198.51	15.90
ARITH. MEAN :	7.07	254.61	29.79	1.12	2.11	1961.48	902.57
ARITH. STD. DEV. :	18.62	277.91	38.24	2.75	3.63	1572.52	1052.75
GEOM. MEAN :	3.37	181.64	18.19	1.34	1.75	1475.00	492.25
1ST QUARTILE :	2.22	122.10	8.51	0.00	0.00	924.00	285.45
2ND QUARTILE :	3.20	168.00	16.82	0.00	0.00	1505.20	669.23
3RD QUARTILE :	5.02	286.00	30.97	0.00	4.07	2933.64	1059.66
VOL. WGT. MEAN :	6.27	225.81	26.73	5.57	8.28	1969.52	906.28
MISSING VALUES :	8	8	24	8	8	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

REGION: SE

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	29	29	29	29	29	29	29	29
MAXIMUM :	112.0	358.40	66.33	38.19	18.56	118.320	7.035	57.285
MINIMUM :	2.4	3.20	2.04	0.48	0.56	0.360	0.080	0.000
ARITH. MEAN :	56.1	161.94	31.47	12.56	8.00	28.801	2.314	3.790
ARITH. STD. DEV. :	27.0	99.78	15.98	9.32	4.88	25.185	1.707	10.519
GEOM. MEAN :	45.0	113.82	25.48	8.62	6.22	17.988	1.561	1.316
1ST QUARTILE :	41.7	90.52	18.78	4.26	4.55	11.220	0.853	0.720
2ND QUARTILE :	54.0	144.10	30.20	11.17	6.60	22.350	2.048	1.315
3RD QUARTILE :	67.0	236.70	40.94	15.66	10.78	37.620	3.150	2.240
VOL. WGT. MEAN :	.	163.07	31.69	12.65	8.05	29.002	2.330	4.072
MISSING VALUES :	0	1	1	1	1	1	1	1

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	29	29	29	29	29	29	29	29
MAXIMUM :	8.700	91.640	9.112	355.10	15.62	952.00	6890.59	323.40
MINIMUM :	0.000	0.336	0.000	6.80	0.00	12.80	44.00	32.40
ARITH. MEAN :	3.196	23.281	0.856	112.57	2.58	262.31	1190.64	109.20
ARITH. STD. DEV. :	2.493	20.742	2.187	82.77	4.50	189.55	1372.53	73.09
GEOM. MEAN :	2.347	14.120	0.466	85.27	1.86	201.10	785.54	90.94
1ST QUARTILE :	1.080	8.763	0.000	51.30	0.00	129.60	540.00	53.25
2ND QUARTILE :	2.168	19.790	0.182	92.12	0.00	261.00	818.50	96.60
3RD QUARTILE :	5.538	29.172	0.289	140.40	3.61	312.80	1302.60	110.76
VOL. WGT. MEAN :	3.467	23.443	1.212	109.48	11.90	259.16	1181.65	99.80
MISSING VALUES :	1	1	1	2	2	4	7	4

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	29	29	29	29	29	29	29
MAXIMUM :	27.14	2520.00	121.90	134.00	14.30	8289.20	6387.13
MINIMUM :	0.92	22.80	13.50	0.00	0.00	230.40	159.24
ARITH. MEAN :	11.23	934.82	60.08	8.33	2.59	4429.97	3077.95
ARITH. STD. DEV. :	6.64	552.03	34.40	25.03	4.33	2055.86	1595.65
GEOM. MEAN :	9.18	720.28	49.74	2.81	1.86	3608.85	2473.25
1ST QUARTILE :	6.58	598.00	37.62	0.00	0.00	3072.60	1932.30
2ND QUARTILE :	9.94	852.00	51.04	1.52	0.00	4553.20	3023.06
3RD QUARTILE :	14.52	1219.00	81.79	7.92	5.68	5788.20	3928.94
VOL. WGT. MEAN :	10.92	909.12	50.28	17.29	9.15	4460.87	3099.42
MISSING VALUES :	2	2	16	2	2	1	1

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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REGION: SW

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	57	57	57	57	57	57	57	57
MAXIMUM :	145.0	674.50	90.25	128.80	92.70	247.520	29.680	47.040
MINIMUM :	17.0	62.65	0.78	3.90	0.78	5.780	0.780	0.716
ARITH. MEAN :	63.0	217.49	39.55	31.66	15.86	42.031	6.781	4.625
ARITH. STD. DEV. :	31.7	126.46	19.50	26.19	13.95	39.917	6.500	7.144
GEOM. MEAN :	55.2	188.40	33.34	23.91	11.74	32.211	4.904	2.731
1ST QUARTILE :	38.0	133.20	23.97	14.08	7.70	20.520	2.640	1.476
2ND QUARTILE :	55.0	197.50	35.20	24.40	12.54	30.800	4.750	2.240
3RD QUARTILE :	91.0	264.00	51.87	36.85	19.19	51.680	7.320	4.125
VOL. WGT. MEAN :	.	216.70	39.41	31.55	15.81	41.878	6.757	4.609
MISSING VALUES :	0	4	4	4	4	4	4	4

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	57	57	57	57	57	57	57	57
MAXIMUM :	59.225	387.520	50.400	484.50	53.02	1904.00	11522.03	370.50
MINIMUM :	0.540	5.641	0.000	13.00	0.00	118.68	180.40	7.17
ARITH. MEAN :	8.109	38.924	1.923	179.21	8.61	415.36	1757.68	76.11
ARITH. STD. DEV. :	9.911	52.919	7.083	105.86	13.32	338.88	2410.38	67.67
GEOM. MEAN :	4.692	27.753	0.541	143.42	3.42	331.25	988.41	55.91
1ST QUARTILE :	2.040	17.784	0.222	105.40	0.00	197.12	494.00	35.96
2ND QUARTILE :	4.400	26.112	0.396	159.09	0.00	306.15	814.90	53.30
3RD QUARTILE :	10.670	47.792	0.776	223.30	10.51	516.00	1560.00	88.90
VOL. WGT. MEAN :	8.080	38.783	2.128	175.94	21.64	402.36	1678.55	74.72
MISSING VALUES :	4	4	4	9	9	17	21	9

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	57	57	57	57	57	57	57
MAXIMUM :	45.54	5049.00	324.80	56.00	16.80	11020.00	8664.10
MINIMUM :	0.36	204.80	3.96	0.00	0.00	407.29	2.25
ARITH. MEAN :	12.28	810.32	58.88	5.66	4.84	4545.95	2859.77
ARITH. STD. DEV. :	8.32	821.84	54.54	9.19	5.67	2464.20	2101.22
GEOM. MEAN :	9.37	611.30	43.61	3.20	2.95	3835.05	1453.90
1ST QUARTILE :	6.12	360.00	26.73	0.00	0.00	2911.04	1353.56
2ND QUARTILE :	10.92	557.75	42.54	3.12	1.82	3865.40	2582.15
3RD QUARTILE :	15.60	833.60	75.75	6.85	9.10	6069.70	4223.14
VOL. WGT. MEAN :	12.05	795.50	53.85	9.52	12.08	4529.40	2840.43
MISSING VALUES :	9	9	19	9	9	4	3

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1991 SUMMARY STATISTICS OF DEPOSITION

REGION: Z

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	167.0	501.00	41.76	28.86	8.24	92.700	4.912	7.725
MINIMUM :	9.2	13.80	6.75	1.47	1.25	3.956	0.230	0.230
ARITH. MEAN :	73.2	140.68	21.24	11.83	4.34	31.050	1.908	2.274
ARITH. STD. DEV. :	48.2	136.14	10.48	8.16	2.19	27.274	1.349	1.908
GEOM. MEAN :	54.0	89.21	18.48	8.64	3.72	20.759	1.386	1.542
1ST QUARTILE :	25.0	52.44	13.44	5.16	2.72	10.560	0.645	0.619
2ND QUARTILE :	61.4	98.00	18.06	10.03	4.30	20.748	1.530	2.040
3RD QUARTILE :	103.0	144.20	27.44	18.37	5.88	39.150	2.940	3.070
VOL. WGT. MEAN :	.	140.68	21.24	11.83	4.34	31.050	1.908	2.274
MISSING VALUES :	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13	13
MAXIMUM :	4.635	79.158	4.223	374.54	2.39	323.40	3654.00	469.80
MINIMUM :	0.375	2.392	0.000	19.32	0.00	39.99	379.70	6.50
ARITH. MEAN :	2.267	27.617	0.576	172.28	0.22	142.88	1351.59	83.44
ARITH. STD. DEV. :	1.130	23.864	1.092	115.45	0.69	81.57	1228.02	129.78
GEOM. MEAN :	1.903	18.076	0.404	121.30	1.08	118.15	922.69	35.99
1ST QUARTILE :	1.445	9.600	0.032	46.44	0.00	76.50	413.10	13.39
2ND QUARTILE :	2.175	18.650	0.228	156.60	0.00	144.63	745.13	24.51
3RD QUARTILE :	2.940	39.411	0.501	254.80	0.00	182.70	1566.00	112.20
VOL. WGT. MEAN :	2.267	27.617	0.803	151.98	19.03	117.80	1101.38	73.60
MISSING VALUES :	0	0	0	2	2	3	8	2

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	145.70	548.10	92.88	14.19	46.98	10203.70	5696.53
MINIMUM :	0.25	60.00	12.50	0.00	0.00	647.50	79.95
ARITH. MEAN :	19.93	239.58	49.98	1.95	11.91	3502.74	1815.60
ARITH. STD. DEV. :	40.36	144.90	28.56	4.22	14.28	2932.65	2084.27
GEOM. MEAN :	5.83	195.80	40.86	1.54	5.06	2470.89	823.65
1ST QUARTILE :	2.55	123.60	29.87	0.00	0.00	1615.08	494.07
2ND QUARTILE :	6.14	196.48	42.30	0.00	5.25	2636.20	781.00
3RD QUARTILE :	13.05	374.10	80.04	1.38	21.71	3547.50	2077.64
VOL. WGT. MEAN :	17.58	211.34	45.29	6.65	18.05	3502.74	1815.60
MISSING VALUES :	2	2	7	2	2	0	0